5-1730-201-12

TM 55-1730-201-12

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

MAINTENANCE PLATFORM, TYPE B-1

FSN 1730-390-5618

This copy is a reprint which includes current pages from Changes 1 through 3.

HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 1969

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D 101.11:

WARNING

PRECAUTIONARY DATA

Personnel performing instructions involving operations, procedures, and practices which are included or implied in this technical manual shall observe the following instructions. Disregard of these warnings and precautionary information can cause serious injury, death, or an aborted mission.

SAFETY-LOCK. Never use the maintenance platform unless the hydraulic cylinder safety-lock is in position.

USING HANDRAILS. Use handrails when ascending or descending the steps.

IMMOBILIZING JACKS. Never use the maintenance platform unless the two immobilizing jacks are in position and the hydraulic cylinder safety lock is installed.

MAXIMUM WEIGHT. Do not operate maintenance platform with more than 500 pounds on the platform.

CHANGE NO. 3

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 21 July 1987

Operator and Organizational Maintenance Manual
Including Repair Parts and Special Tools List

MAINTENANCE PLATFORM, TYPE B-1

FSN 1730-390-5618

TM 55-1730-201-12, 21 October 1969, is changed as follows:

Page 1, paragraph 2, in lines 2 and 3, change "TM 38-750" to "DA PAM 738-751".

Page 7, Table 1, change "MIL-O-6083" to "MIL-H-83282/MIL-H-5606".

Page 27, Appendix A, paragraph 4, change "DA PAM 310-4" and its title to "DA PAM 310-1, Consolidated Index of Army Publications and Blank Forms."

Page 27, Appendix A, paragraph 6, change "TM 38-750" and its title to "DA PAM 738-751, Functional Users Manual for the Army Maintenance Management System - Aviation (TAMMS-A)".

Page 29, paragraph 4a., following the last sentence, add "The higher level of maintenance has the authority to determine:

(1) If the lower level is capable of performing the work.

(2) If the lower level will require assistance or technical supervision and on-site inspection.

(3) If the authorization will be granted."

Page 34, Group 01, Line 7, Column (2), add 2250-00-109-3402.

Page 34, Group 01, Line 10, Column (2), change to "5315-00-243-1170"; and Column 4 to "HD".

Page 35, after Line 2, add the following:

P O	5340-00-692-0036	55J6219-9	(82369)	Bumper, Strip	EA	1	*	*	*	*	1	21

Page 35, Group 02, Line 10, Column (2) and (3), change to "5365-00-281-3586" "N5000-312".

Page 35, Group 02, Line 12, add to Column (2), "1730-00-787-1532".

Page 36, afer Lines 1 and 3, add the following:

P O	1730-00-110-6056	56C6421	(23808)	Lunette, Towing	EA	1	*	*	*	*	7	5
P O	5305-00-716-8165	MS 90726-127	(96906)	Screw, Cap, Hex	EA	1	*	*	*	*	7	6

Page 38, Line 6, Column (2), change to "5330-00-198-6177".

Page 39, Group 06, after Line 12, add the following:

P O	5310-00-877-5795	MS 21044N8	(96906)	Hex, Nut	EA	10	*	*	*	*	8	1
P O	5305-00-269-2803	MS 90726-60	(96906)	Hex, HD, Bolt	EA	8	*	*	*	*	8	3
P O	2530-00-528-7224	MS 24325-1	(96906)	Rim Assy, Outer	EA	2	*	*	*	*	8	4
P O	2530-00-528-7224	MS 24325-1	(96906)	Rim Assy, Inner	EA	2	*	*	*	*	8	6
P O	5310-00-950-0039	MS 21044N6	(96906)	Hex, Nut	EA	16	*	*	*	*	8	8
P O	5310-00-821-8226	82436	(73342)	Bearing Washer	EA	2	*	*	*	*	8	12
P O	2530-00-646-7705	MS 24328-2	(96906)	Hub Body	EA	2	*	*	*	*	8	15
P O	5330-00-576-4465	6081	(92798)	Dust Seal	EA	2	*	*	*	*	8	18
P O	5310-00-121-2791	X1-205	(54713)	Hex Nut	EA	8	*	*	*	*	8	20
P O	5330-00-716-8187	MS 907726-108	(96906)	Hex Bolt	EA	8	*	*	*	*	8	21
P O	5310-00-003-4094	MS 35338-48	(96906)	Washer	EA	8	*	*	*	*	8	22

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:
To be distributed in accordance with DA Form 12-31, -10 & CL and AVUM Maintenance requirements for All Fixed and Rotary Wing Aircraft.

TM 55-1730-201-12
C 2

CHANGE
NO. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 28 September 1985

Operator and Organizational Maintenance Manual
Including Repair Parts and Special Tools Lists

MAINTENANCE PLATFORM, TYPE B-1
FSN 1730-390-5618

TM 55-1730-201-12, 21 October 1969, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
1 and 2	1 and 2
17 and 18	17 and 18
39 and 40	39 and 40

2. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army:

JOHN A. WICKHAM, JR.
General, United States Army
Chief of Staff

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Brigadier General, United States Army
The Adjutant General

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TM 55-1730-201-12
C 1

CHANGE
No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 1 February 1972

Operator and Organizational Maintenance Manual
Including Repair Parts and Special Tools Lists

MAINTENANCE PLATFORM, TYPE B-1

FSN 1730-390-5618

TM 55-1730-201-12, 21 October 1969, is changed as follows:

Pages 25 and 26. Paragraphs 53 through 57 are deleted in their entirety. The following sentence is added after "Section II. Demolition of Material to Prevent Enemy Use": (Refer to TM 750-244-1-3 for demolition instructions.)

Page 26. Figure 9 is deleted.

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:
VERNE L. BOWERS,
Major General, United States Army,
The Adjutant General.

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GPO 908-288

TECHNICAL MANUAL
No. 55-1730-201-22

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 21 October 1969

Operator and Organizational Maintenance Manual Including Repair Parts and Special Tools Lists

MAINTENANCE PLATFORM, TYPE B-1, FSN 1730-390-5618

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*This manual supersedes TM 55-1730-201-12 dated 23 February 1962.

CHAPTER I
INTRODUCTION

Section I. GENERAL

1. SCOPE

a. These instructions are published for the information and guidance of operating and maintenance personnel to whom the maintenance platform is assigned. They contain information on the operation, lubrication, detail preventive maintenance services, and maintenance of the equipment; they also contain packing, preservation, storing, and shipping procedures. Also included is the applicable repair parts and special tools lists.

b. Applicable reference publications are listed in appendix A; the Maintenance Allocation Chart is in appendix B.

c. Reporting of Improvements. Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded directly to: Commanding General, U.S. Army Aviation Systems Command, ATTN: AMSAV-MPSD, 4300 Goodfellow Blvd., St. Louis, Missouri 63120-1798.

2. EQUIPMENT RECORDS.

The Army equipment record system and procedures established in TM 38-750 apply to this equipment. The applicable forms as required by TM 38-750 shall be used.

Section II. DESCRIPTION AND DATA

3. DESCRIPTION.

The maintenance platform type B-1 (figure 1) is a single, variable-height, portable stair structure and platform assembly. The maintenance platform is a hydraulically-operated, adjustable ladder with a work platform that enables a serviceman to work in safety at various heights.

4. DEVIATION IN MODELS.

This manual covers only the type B-1 maintenance platform.

5. TABULATED DATA.

a. General.

Manufacturer .....Superior Welding (FMC 23808)
Type B-1

b. Dimensions and Weight

Weight .....850 lbs. (pounds)
Height (lowered) ...35 in. (inches)
Height (extended) ..120 in.
Length, overall ....132 in.
Width, overall .....48 in.

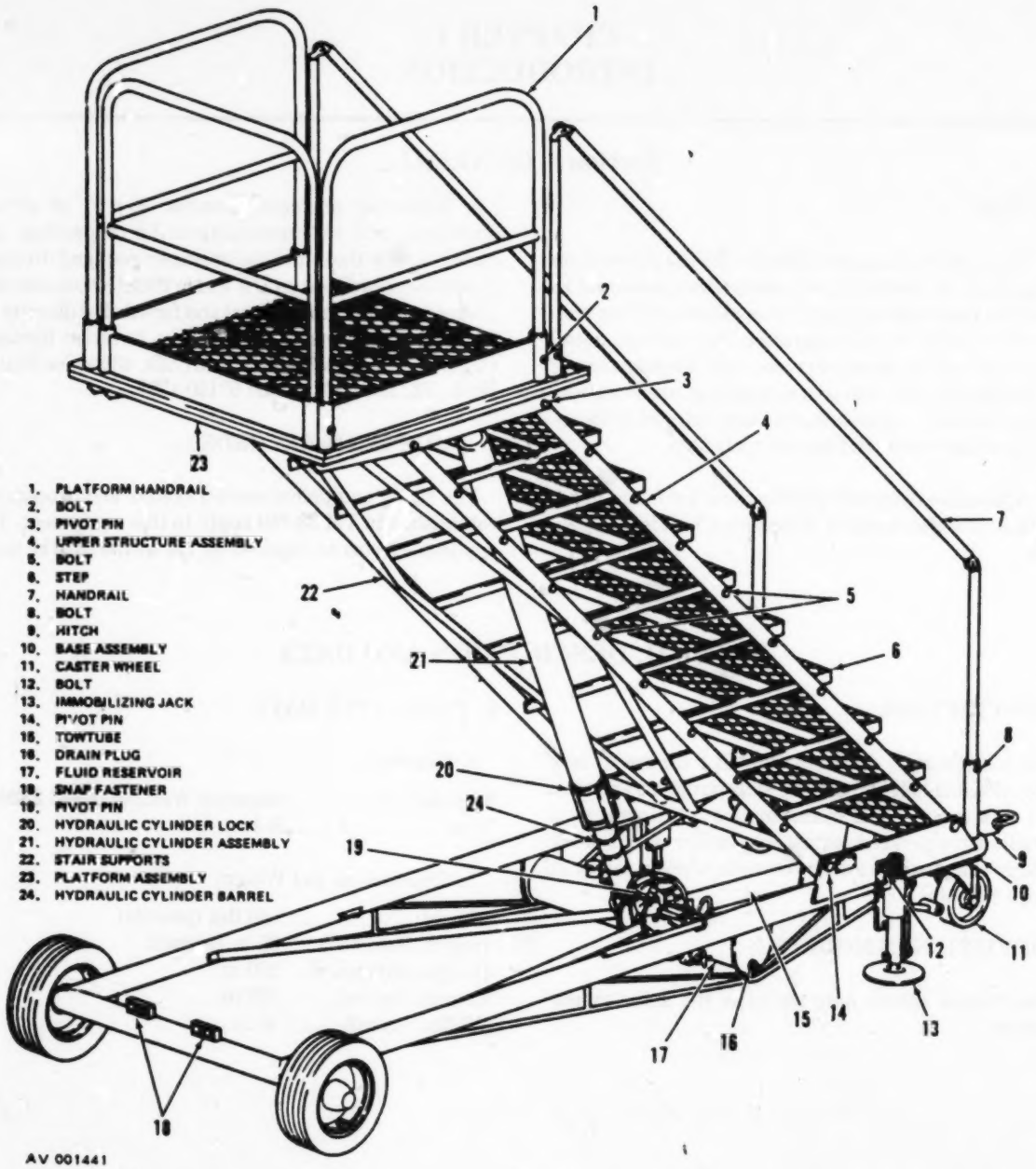


Figure 1. Assembled View of Adjustable Maintenance Platform 3 to 10 ft. Type B-1.

CHAPTER 2
INSTALLATION AND OPERATING INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

6. UNPACKING AND ASSEMBLY.

a. Remove the maintenance platform from the shipping crate.

b. Assemble the upper structure assembly (figure 2) and, with a suitable hoist, lift the upper structure onto the base assembly (10, figure 1).

c. Secure the hydraulic cylinder assembly (21, figure 1) to the hydraulic reservoir with the hydraulic pivot pin.

d. Install the wheel assembly (paragraph 47) and swivel casters (paragraph 46).

e. Connect the hydraulic lines (paragraph 36).

7. INSPECTION OF NEW EQUIPMENT.

a. Inspect hydraulic lines and fittings for leaks.

b. Inspect tires for proper inflation; if necessary, inflate to 40 psi.

c. Inspect frame structure and welds for breaks or damage.

d. Inspect for, and tighten, any loose nuts or bolts.

8. SERVICING NEW EQUIPMENT.

a. Perform the before-operation services paragraph 24).

b. Lubricate the maintenance platform in accordance with instructions given in paragraph 22.

c. Fill the hydraulic reservoir (paragraph 35).

d. Perform preventive maintenance services paragraph 25).

9. INSPECTION OF USED EQUIPMENT.

Inspect the maintenance platform in the same manner as described in paragraph 7. Pay particular attention to any evidence of excessive wear and broken, missing, or bent parts. Repair or replace excessively worn or unserviceable parts.

10. SERVICING USED EQUIPMENT.

Service a used maintenance platform in the same manner as described in paragraph 8.

Section II. MOVEMENT TO A NEW WORK SITE

11. PREPARATION OF EQUIPMENT FOR MOVEMENT.

a. Secure the upper structure assembly (4, figure 1) to the vase assembly (10) with the two snap fasteners (18).

b. Raise the two immobilizing jacks (13).

c. Attach the hitch (9) to the towtube (15) with two bolts and nuts.

12. MOVEMENT TO A NEW WORK SITE.

If the maintenance platform is to be moved a short distance, it can be towed with the hitch. Long distance moving necessitates loading the unit on a carrier (paragraph 50). After the movement is completed, the hold-down straps (39, figure 7) must be released. Remove the two bolts securing the hitch to the towtube and store the bar in the tube.

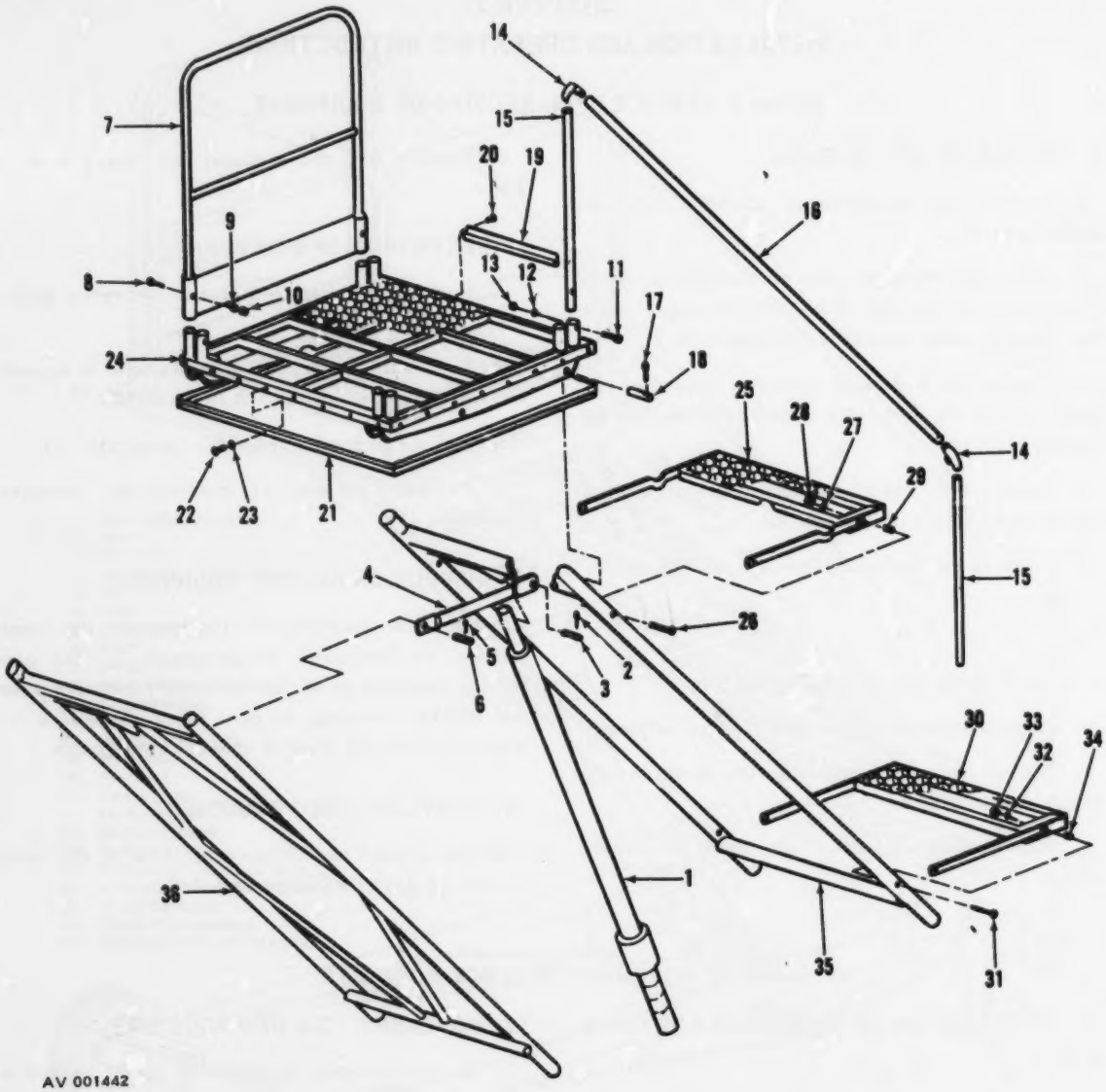
Section III. CONTROLS

13. GENERAL.

This section describes, locates, illustrates, and furnishes the operator with sufficient information pertaining to the various controls provided for, in the proper operation of the maintenance platform.

14. IMMOBILIZING JACK LEVER.

An immobilizing jack lever (1, figure 3), located on each jack at the front of the lower structure, is used to raise and lower the immobilizing jack.



1. ACTUATING CYLINDER
2. COTTER PIN
3. PIVOT PIN
4. BRACE
5. COTTER PIN
6. PIVOT
7. PLATFORM HANDRAIL
8. BOLT
9. WASHER
10. NUT
11. BOLT
12. WASHER
13. NUT
14. SWIVEL ASSEMBLY
15. FOLDING HANDRAIL
16. STAIR RAIL
17. COTTER PIN
18. PIVOT PIN
19. SAFETY WARNING LOCK PLATE
20. SCREW
21. BUMPER ASSEMBLY
22. SCREW
23. WASHER
24. PLATFORM FLOOR PLATE
25. UPPER STEP
26. BOLT
27. WASHER
28. NUT
29. STEP BUSHING
30. STEP
31. BOLT
32. WASHER
33. NUT
34. STEP BUSHING
35. FRONT STAIR SUPPORT
36. REAR PLATFORM SUPPORT

Figure 2. Upper Structure Assembly, Exploded View.

15. HAND PUMP HANDLE.

The hand pump handle (7, figure 4) is mounted on the hydraulic hand pump (1). When actuated by the handle, the hydraulic hand pump draws hydraulic fluid from the reservoir (4) and forces the fluid into the hydraulic cylinder assembly (3) causing the upper structure to rise.

16. BY-PASS VALVE.

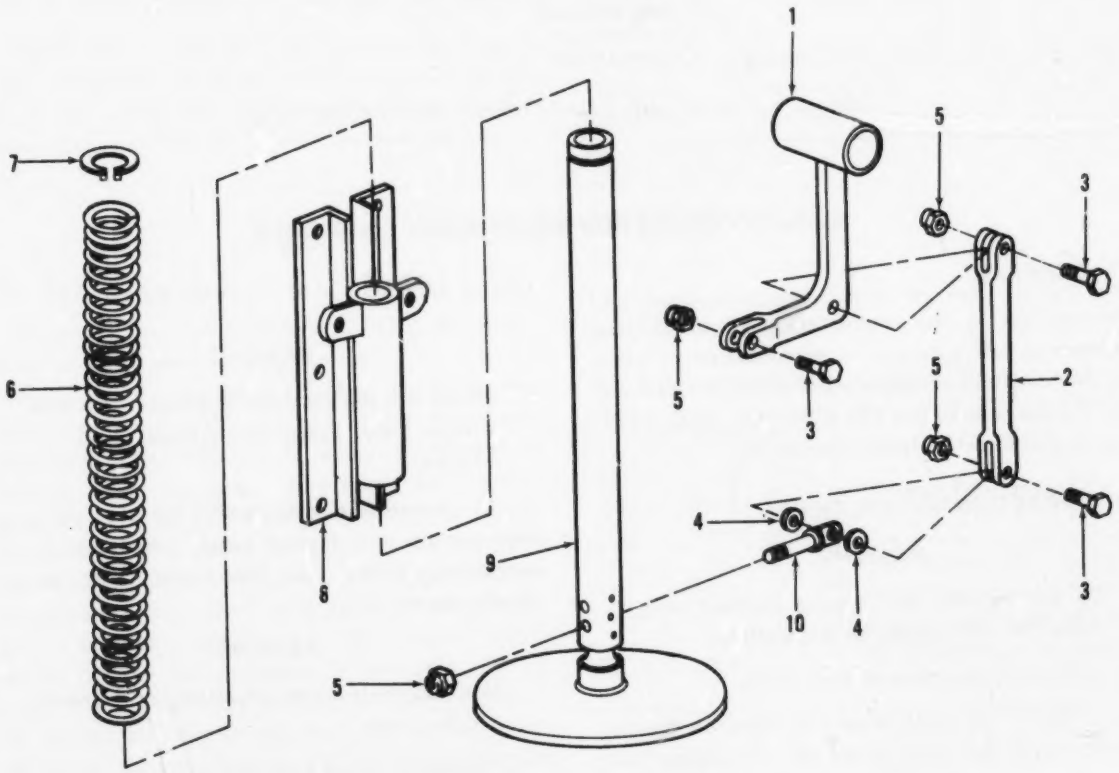
The by-pass valve (6, figure 4) is a needle-type valve and is located under the hydraulic hand pump (1). When the by-pass valve is in the closed position, it locks the fluid under pressure in the hydraulic cylinder assembly. Opening the by-pass valve allows the fluid from the cylinder assembly to by-pass the hand pump and return to the reservoir, causing the upper structure to lower.

17. HYDRAULIC CYLINDER LOCK ASSEMBLY.

The hydraulic cylinder lock (20, figure 1) must be positioned manually. It must be rotated to lock the fingers of the hydraulic cylinder barrel lock assembly into the proper slot of the hydraulic cylinder barrel.

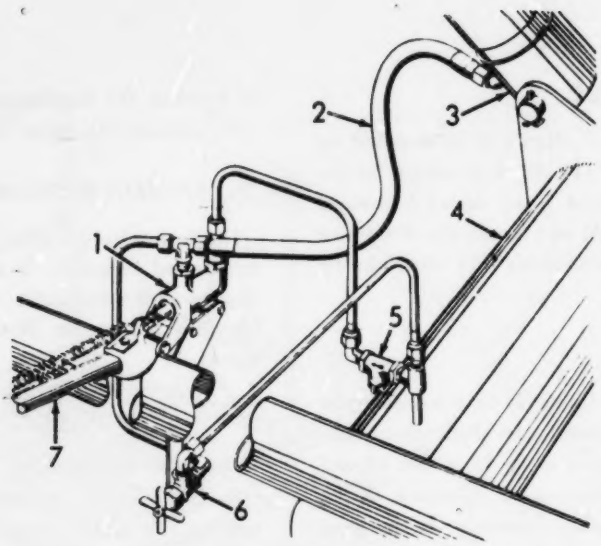
18. SNAP FASTENER.

The snap fastener (18, figure 1), located on the rear cross brace, secures the upper structure assembly (4) to the base assembly when the upper structure assembly is in the fully lowered position.



1. LEVER
2. LINK
3. BOLT
4. WASHER
5. NUT
6. SRING
7. RETAINING RING
8. SLEEVE
9. BASE ASSEMBLY
10. BOLT

Figure 3. Immobilizing Jack.



1. HYDRAULIC HAND PUMP
2. FLEXIBLE HOSE
3. HYDRAULIC CYLINDER ASSEMBLY
4. HYDRAULIC FLUID RESERVOIR
5. FLUID STRAINER
6. BY-PASS VALVE
7. PUMP HANDLE

AV 001444

Figure 4. Hand Pump, Fluid Strainer, and By-Pass Valve.

Section IV. OPERATION UNDER USUAL CONDITIONS

19. GENERAL.

Instructions in this section are published for the information and guidance of personnel responsible for the operation of this equipment. It is essential that the operator knows how to perform every operation of which the equipment is capable.

20. OPERATING INSTRUCTIONS.

WARNING

Do not operate maintenance platform with more than 500 pounds on the platform.

a. Raising Upper Structure Assembly.

(1) Place the maintenance platform in the desired location and depress the lever (1, figure 3) of the immobilizing jacks to the locked position.

WARNING

Never use the maintenance platform unless the two immobilizing jacks are in position and the hydraulic cylinder safety lock is installed.

(2) Close the by-pass valve (6, figure 4) by turning the handle in a clockwise direction.

WARNING

Never use the platform in a raised position without the hydraulic cylinder lock installed.

(3) Operate the pump handle (7) until the platform attains the desired height, then install the hydraulic cylinder lock (20, figure 1) on the hydraulic barrel (24).

WARNING

Use handrails when ascending or descending the steps.

b. Lowering Upper Structure Assembly.

(1) Remove the hydraulic cylinder lock (20, figure 1) from the hydraulic cylinder barrel (24).

(2) Open the by-pass valve (6, figure 4) by turning the valve handle in a counterclockwise direction.

(3) Release immobilizing jacks (13, figure 1) to maneuver the maintenance platform.

CHAPTER 3

OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. OPERATOR AND ORGANIZATIONAL TOOLS, EQUIPMENT AND LUBRICATION

21. SPECIAL TOOLS AND EQUIPMENT.

No special tools or equipment are required to perform operator and organizational maintenance on the maintenance platform.

22. LUBRICATION.

a. General Lubrication Information. This section contains a lubrication chart (table 1) which is supplemented by the detailed lubrication information contained in *b* below.

b. Detailed Lubrication Information.

(1) Care of Lubricants and Lubrication Equipment. Keep all lubricants in closed containers and store in a clean, dry area away from heat. Do not allow dirt, dust, water, or other foreign material to come in contact with the lubricants. Keep all lubrication equipment clean and ready to use.

(2) *Points of Application.* Follow the detailed lubrication instructions given in the chart below.

Table 1. Lubrication Chart

ITEM	LUBRICANTS	TEMPERATURES	INTERVALS
Wheel bearings	Grease MIL-G-3278	All	60 day
Immobilizing jack	Grease MIL-L-6032	All	60 day
Casters	Grease MIL-G-3278	All	60 day
Hydraulic reservoir	Hydraulic oil MIL-O-6083	All	60 day

Section II. PREVENTIVE MAINTENANCE SERVICES

23. GENERAL.

To ensure that the equipment is ready for operation at all times, it must be inspected systematically before operation, during operation, and after operation, so defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance services will be performed before operation. Defects discovered during operation of the unit will be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noticed during operation which would damage the equipment if operation is continued. After-operation services will be performed by the operator after every operating period. After-operation services will be performed at intervals based on the normal operation of the equipment. Reduce interval to compensate for abnormal conditions. Defects or unsatisfactory operating characteristics beyond the scope of the operator to correct must be reported at the earliest opportunity to organizational maintenance. Responsibility for performance of preventive maintenance services rests not only with the operator, but with the entire chain of command from section chief to commanding officer (AR 750-5).

24. OPERATOR'S DAILY SERVICES.

INTERVALS			PROCEDURE
Before Operation	During Operation	After Operation	
X	X	X	Visual inspection. An external inspection will be made to determine whether the maintenance platform is in good condition, correctly assembled, and secure. Any mechanical condition which may result in damages to the unit must be corrected before the equipment is operated.
X	X	X	Leaks. Inspect the hydraulic lines and fittings for leakage.

INTERVALS			PROCEDURE
Before Operation	During Operation	After Operation	
X		X	Hydraulic fluid. Inspect the fluid level; add fluid, if necessary, to bring level up to one inch below the filler neck.
X			Tampering. Inspect the maintenance platform for evidence of tampering or damage. Do not operate the unit until all defects are corrected or reported to organizational maintenance.

25. ORGANIZATIONAL PREVENTIVE MAINTENANCE SERVICES.

INSPECTION	SERVICE		PROCEDURE
	Monthly	Yearly	
X	X		Before-operation services. Inspect and perform the operator's daily services listed in paragraph 24.
X	X		Lubrication. Inspect the maintenance platform for damaged or missing lubrication fittings. Inspect to see that a copy of the current lubrication order is with the unit and in legible condition.
X	X		Appearance. Inspect the general appearance of the maintenance platform, paying particular attention to the uncleanliness and poor condition of paint. Inspect for freedom of operation.
X	X		Wheels and tires. Inspect tires for cuts, wear, and proper inflation. If necessary, inflate to 40 psi. Replace a defective wheel or tire (paragraph 47).
X	X	X	Hydraulic system. Inspect the condition of the lines and fittings. Inspect the strainer screen, clean if necessary. At 12-month periods, drain fluid from hydraulic reservoir. Refill the reservoir (paragraph 35).

Section III. TROUBLESHOOTING

26. GENERAL.

This section provides information useful in diagnosis and correction, inspection, operation, or failure of the maintenance platform, or any of its components. Each trouble symptom stated is followed by a list of probable causes of the trouble. The possible remedy recommended is described opposite the probable cause.

27. PLATFORM WILL NOT RISE OR RISES SLOWLY.

PROBABLE CAUSE	POSSIBLE REMEDY
High pressure hose leaks	Replace high pressure hose (paragraph 36)
By-pass valve sticking (will not fully open)	Clean valve of obstructing foreign material (paragraph 33)

28. HYDRAULIC CYLINDER STICKS AT FULLY EXTENDED POSITION.

PROBABLE CAUSE	POSSIBLE REMEDY
Piston extended too far and riding on inner cylinder wall	Remove safety-lock, open by-pass valve, and jar upper structure down until piston is released.

29. PLATFORM WILL NOT LOWER OR LOWERS SLOWLY.

PROBABLE CAUSE	POSSIBLE REMEDY
Piston packing ruptured	Replace piston packing (paragraph 37)
By-pass valve sticking (will not fully close)	Clean valve of obstructing foreign material (paragraph 33)
High pressure hose leaking	Replace high pressure hose (paragraph 36).

30. HAND PUMP FAILS TO OPERATE.

PROBABLE CAUSE	POSSIBLE REMEDY
Pump piston or cylinder scored or scratched	Replace a defective piston or cylinder (paragraph 37)
Ballsprings weak or broken	Replace a defective ballspring (paragraph 37)

Section IV. HYDRAULIC SYSTEM

31. GENERAL.

The hydraulic system which functions to supply fluid under pressure to the cylinder assembly consists of a hand-operated hydraulic pump, a by-pass valve, lines and fittings, hydraulic cylinder, and a fluid reservoir.

32. HYDRAULIC HAND PUMP.

a. Removal

(1) Disconnect the hose assembly (5, figure 5) from the tee (2).

(2) Disconnect the suction tube assembly (4) from the reducer (3).

(3) Disconnect the by-pass tube assembly (1) from the tee (2).

(4) Remove the two bolts (37), lockwashers (32), and nuts (31) that secure the pump body (36) to the bracket and remove the pump.

Legend for Figure 5:

1. Bypass tube assembly
2. Tee
3. Reducer tube
4. Suction tube assembly
5. Hose assembly
6. Elbow
7. Return tube assembly
8. Return tube adapter
9. Tee
10. Nipple
11. Hydraulic strainer plug
12. Screen
13. Gasket
14. Strainer body
15. Elbow, 90°
16. Elbow, 90°
17. Screw
18. Valve assembly
19. Washer
20. Nut
21. Elbow
22. Pin
23. Connecting link
24. Handle socket
25. Bolt
26. Handle assembly
27. Spring
28. Cotter pin
29. Nut
30. Setscrew
31. Nut
32. Washer
33. Preformed packing
34. Nut
35. Gasket
36. Pump body
37. Bolt
38. Pivot pin
39. Nut
40. Bearing
41. O-ring
42. Preformed packing
43. Valve seat
44. Preformed packing
45. Ball bearing
46. Spring
47. Piston
48. Plug
49. Preformed packing
50. Ball bearing
51. Spring
52. Preformed packing

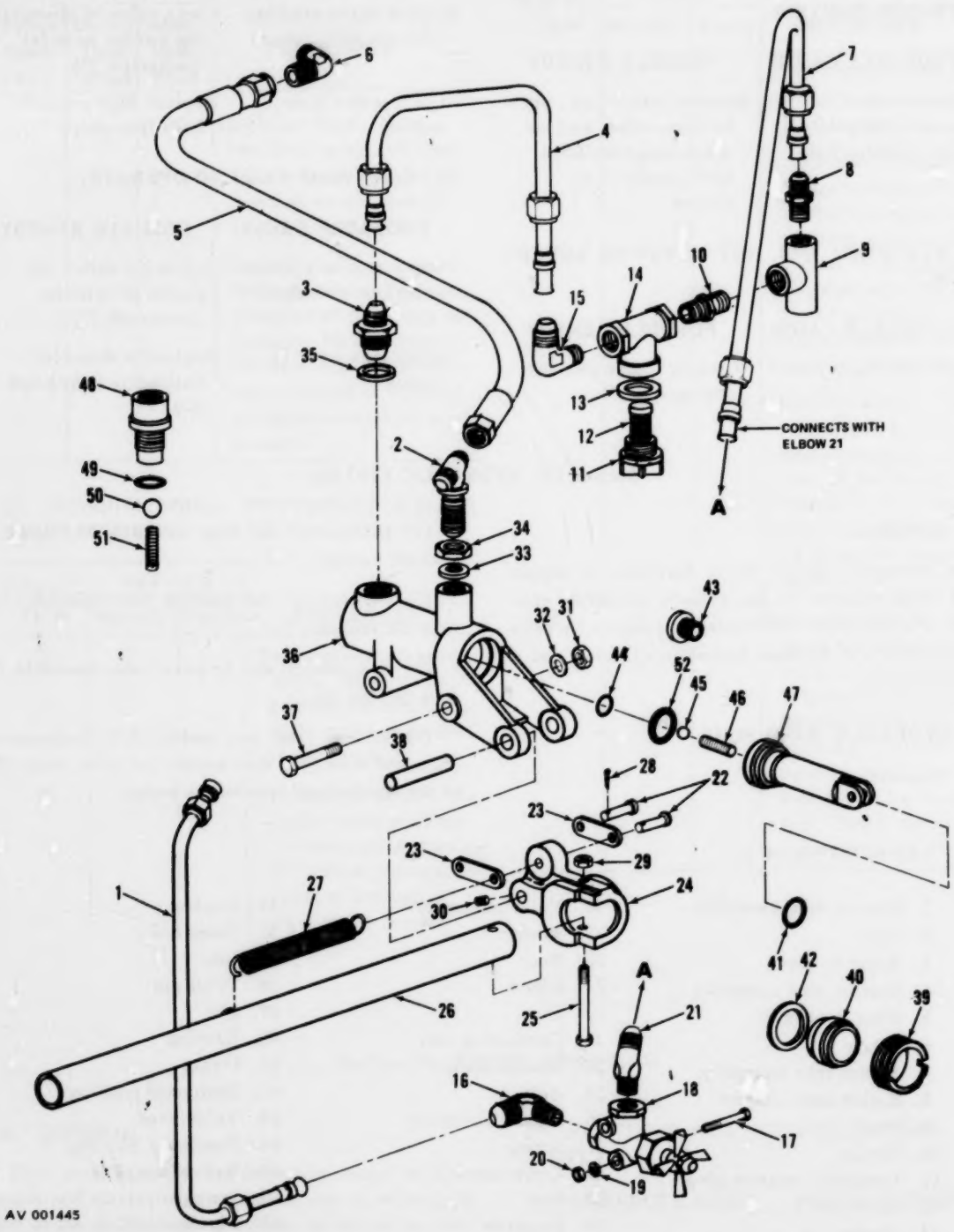


Figure 5. Hydraulic System Installation, Exploded View.

b. Disassembly.

(1) Remove the pivot pin (38) securing the the pump handle socket (24) to the pump.

(2) Remove the cotter pin (28), spring (27), two connecting links (23), and two pins (22), securing the pump handle socket (24) to the pump and remove the socket.

(3) Remove the bolt (25) and nut (29) securing the pump handle (26) to the socket and remove the handle.

(4) Remove the tee (2), nut (34), and packing (33) from pump body (36).

(5) Remove the nut (39), bearing (40), packing (42), O-ring (41) and piston (47) from the pump body (36).

(6) Remove the packing (44), seat (43), packing (52), ball bearing (45), and spring (46) from the piston.

(7) Remove the reducer (3), gasket (35), plug (48) packing (49), ball bearing (50) and spring (51) from the pump body (36).

c. Cleaning, Inspection, and Repair.

(1) Wash all metal parts in cleaning solvent, Federal Specification P-D-680 and dry thoroughly.

(2) Inspect the springs for fatigue or damage. Inspect the O-rings for wear and deterioration. Inspect the piston and cylinder for scores and scratches. Polish out any minor scores or scratches.

(3) Inspect all threaded surfaces for worn or damaged threads.

(4) Replace any defective parts.

d. Reassembly.

(1) Install the spring (51) ball bearing (50) packing (49), plug (48), gasket (35) and reducer (3) in the pump body (36).

(2) Install the spring (46), ball bearing (45), packing (52), packing (44) and seat (43) in the piston (47).

(3) Install the piston, O-ring (41), packing (42), bearing (40), nut (39) in the pump body (36).

(4) Install the packing (33), nut (34), and tee (2), in the pump body (36).

(5) Position the pump handle (26) in the pump handle socket (24) and secure with the bolt (25) and nut (29).

(6) Position the pump handle socket (24) to the pump body and secure with the spring (27), two connecting links (23), two pins (22) and cotter pin (28).

(7) Install the pivot pin (38) that secures the pump handle socket to the pump.

e. Installation.

(1) Position the pump to the bracket and secure with two bolts (37), lockwashers (32), and nuts (31).

(2) Connect the by-pass tube assembly (1) to the tee (2).

(3) Connect the suction tube assembly (4) to the reducer (3).

(4) Connect the hose assembly (5) to the tee (2).

33. BY-PASS VALVE ASSEMBLY.

a. Removal.

(1) Disconnect the return tube assembly (7, figure 5) from the elbow (21).

(2) Disconnect the by-pass tube assembly (1) from the elbow (16).

(3) Remove the two screws (17), lockwashers (19), and nuts (20) securing the by-pass valve (18) to the bracket.

(4) Remove the elbows (16 and 21) from the valve.

b. Cleaning, Inspection, and Repair.

(1) Wash the valve assembly in cleaning solvent, Federal Specification P-D-680, and dry thoroughly.

(2) Blow out the passages with compressed air.

(3) Inspect the valve for broken or cracked housing.

(4) Replace unserviceable parts as authorized.

(5) Replace a defective valve.

c. Installation.

(1) Install the elbows (16 and 21) in the valve.

(2) Position the by-pass valve (18) on the bracket and secure with two screws (17), lockwashers (19), and nuts (20).

(3) Connect the return tube assembly (7) to the elbow (21).

(4) Connect the by-pass tube assembly (1) to the elbow (16).

34. HYDRAULIC STRAINER ASSEMBLY.

a. Service.

(1) Remove the strainer plug (11, figure 5) and gasket (13) from the strainer body (14).

(2) Wash the strainer plug in cleaning solvent, Federal Specification P-D-680, to remove all dirt.

(3) Install the strainer plug and gasket in the body.

b. Removal.

(1) Disconnect the suction tube assembly (4) from the elbow (15).

(2) Remove the strainer body (14) from the nipple (10).

(3) Remove the strainer plug (11), gasket (13), and elbow (15) from the strainer body (14).

c. Cleaning and Inspection.

(1) Wash all parts in cleaning solvent, Federal Specification P-D-680, and dry thoroughly.

(2) Inspect the body for cracks and breaks. Inspect the mesh in the strainer plug for breaks. Inspect all threaded surfaces for worn or damaged threads.

(3) Replace any defective parts.

d. Installation

(1) Install the gasket (13), strainer plug (11), and elbow (15) in the strainer body (14).

(2) Install the strainer body on the nipple (10.

(3) Connect the suction tube assembly (4) to the elbow (15).

35. HYDRAULIC RESERVOIR.

a. Service

(1) Remove the drain plug (16, figure 1) from the end of the fluid reservoir (17) and drain the hydraulic fluid into a suitable container.

(2) Refill the reservoir to a level up to a point one inch below the filler neck.

b. Cleaning, Inspection, and Repair.

(1) Flush the hydraulic reservoir with cleaning solvent. Federal Specification P-D-680.

(2) Inspect the reservoir for cracks, holes, and broken weldments.

(3) Drain and flush the reservoir and reweld any broken weldments. Weld small cracks and holes.

36. HOSES, TUBES, AND FITTINGS.

a. Remove the hose assembly (5, figure 5), suction tube assembly (4), by-pass tube (1), and return tube assembly (7) from their fittings and wipe them off with a moist cloth.

b. Inspect the flexible hose for deterioration and holes. Inspect the tube assemblies for cracks, breaks, and collapsed areas.

c. Inspect all fittings for worn or defective threads.

d. Replace all defective parts.

37. HYDRAULIC CYLINDER ASSEMBLY.

a. Removal

(1) Support the upper structure to relieve the weight on the pivot pins.

(2) Disconnect the flexible hose (2, figure 4) from the hydraulic cylinder assembly and drain hydraulic oil.

(3) Remove the two cotter pins that secure the pivot pins (19, figure 1) at the top and bottom of the hydraulic cylinder assembly (21) and remove the hydraulic cylinder assembly.

b. Disassembly.

(1) Remove the two nuts (5, figure 6), flat washers (4), and bolts (2) securing the actuating cap (3) to the sleeve assembly (6) and remove the actuating cap.

(2) Remove the sleeve assembly (6) from the actuating assembly (1).

(3) Remove the lock assembly (7) from the sleeve assembly (6).

(4) Remove the bushing (9) from the rod assembly (14).

(5) Remove the retaining ring (8) from the sleeve assembly (6).

(6) Remove the rod assembly (14) from the actuating cylinder (1) and remove the retaining ring (10), piston (12), and preformed packing (13) from the rod. Remove the preformed packing (11) from the piston.

c. Cleaning, Inspection, and Repair.

(1) Clean all metal parts with cleaning solvent, Federal Specification P-D-680, and dry thoroughly.

(2) Inspect the rod assembly packings for scores or damaged condition. Replace a bent rod assembly.

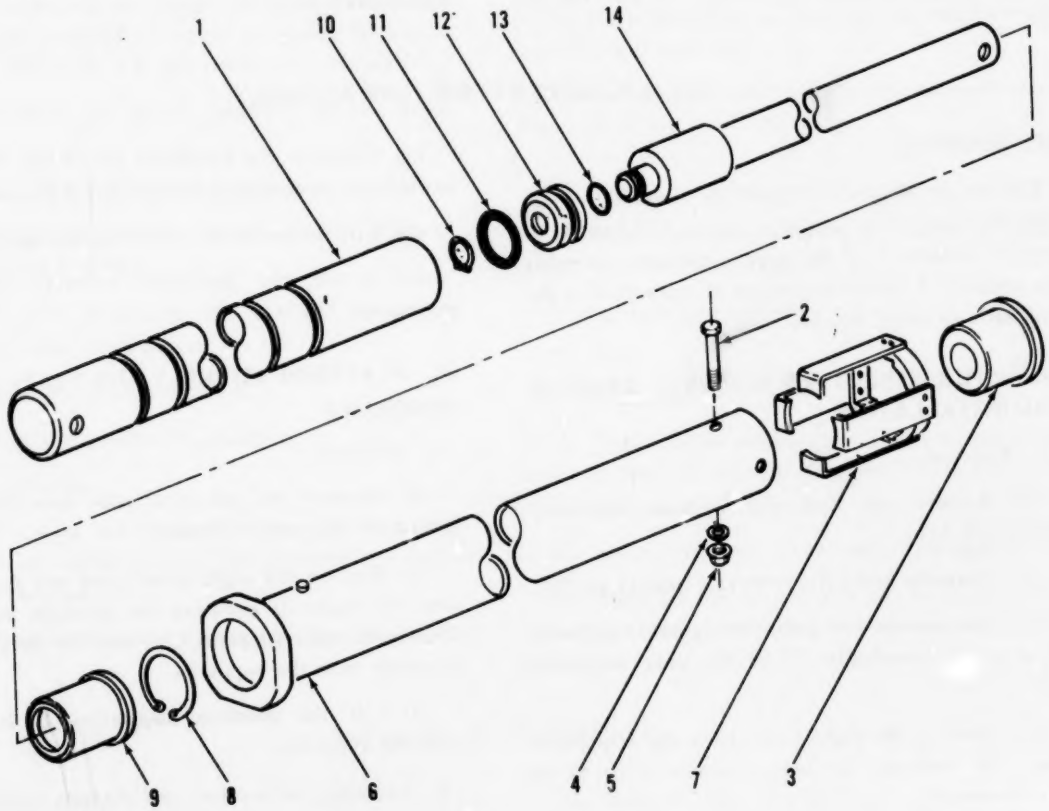
(3) Inspect the piston rod bushing and piston for nicks or scratches. Polish out any small nicks or scratches.

(4) Inspect the shell and sleeve assemblies for scratches or scoring. Polish out any small nicks or scratches.

(5) Replace any defective parts.

d. Reassembly.

(1) Install the preformed packing (13, figure 6)



1. ACTUATING CYLINDER
2. BOLT
3. ACTUATING CAP
4. WASHER
5. NUT
6. SLEEVE ASSEMBLY
7. LOCK ASSEMBLY
8. RETAINING RING
9. BUSHING
10. RETAINING RING
11. PREFORMED PACKING
12. PISTON
13. PREFORMED PACKING
14. ROD ASSEMBLY

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Figure 6. Hydraulic Cylinder Assembly, Exploded View.

on the rod assembly (14).

(2) Install the preformed packing (11) on the piston (12). Install the piston on the rod assembly (14) and secure with retaining ring (10).

(3) Lubricate the piston and rod assembly with hydraulic oil, MIL-O-6083, and install in the actuating cylinder (1).

(4) Install the bushing (9) on the rod assembly (14).

(5) Install the retaining ring (8) in the sleeve assembly (6).

(6) Install the lock assembly (7) on the sleeve assembly (6).

(7) Install the sleeve assembly (6) over the rod assembly (14) and actuating cylinder (1).

(8) Install the actuating cap (3) in the sleeve assembly (6) and secure with the two bolts (2), washers (4), and nuts (5).

e. Installation.

(1) Position the hydraulic cylinder assembly on the upper structure and reservoir bracket and secure with the two pivot pins (19, figure 1) and cotter pins.

(2) Connect the flexible hose (2, figure 4) to the hydraulic cylinder assembly.

(3) Remove the support from the upper structure and operate hydraulic pump. Fill reservoir to within one inch of filler neck with hydraulic oil, MIL-O-6083.

Section V. UPPER STRUCTURE ASSEMBLY

38. GENERAL.

The upper structure (figure 2) consists of the work platform, stair supports, steps, and handrails. Height variations of the upper structure assembly are controlled by the extension or retraction of the hydraulic cylinder assembly.

39. UPPER STRUCTURE ASSEMBLY REMOVAL AND INSTALLATION.

a. Removal.

(1) Remove the hydraulic cylinder assembly (paragraph 37).

(2) Drain the hydraulic reservoir (paragraph 35).

(3) Remove the two bolts (8, figure 1) and nuts securing the handrails (7) to the base assembly (10).

(4) Remove the eight cotter pins and four pivot pins (14) securing the stair supports (22) to the base assembly.

(5) Using a suitable hoist, lift the upper structure assembly (4) from the base assembly.

b. Installation.

(1) Position the upper structure assembly (4) on the base assembly (10) and secure with the four pivot pins (14) and eight cotter pins.

(2) Position the handrails (7) to the base assembly and secure with the two bolts (8) and nuts.

(3) Fill the hydraulic reservoir (paragraph 35).

(4) Install the hydraulic cylinder assembly (paragraph 37).

40. PLATFORM ASSEMBLY AND PLATFORM HANDRAILS.

a. Removal.

(1) Remove the two pivot pins from the upper end of the hydraulic cylinder.

(2) Remove the eight cotter pins and four pivot pins (3, figure 1) securing the platform assembly (23) to the stair supports (22) and lift the platform assembly from the supports.

(3) Lift the platform handrails (1) from the platform assembly.

b. Cleaning, Inspection, and Repair.

(1) Wash all parts in cleaning solvent, Federal Specification P-D-680.

(2) Inspect all pivot pins for excessive wear.

(3) Inspect the handrails for cracks and excessive looseness. Weld small cracks.

(4) Inspect the platform plate for surface wear

and security of the plate to the platform.

(5) Replace any defective parts.

c. Installation.

(1) Position the platform handrails (1) on the platform assembly (23).

(2) Position the platform on the four stair supports (22) and secure with four pivot pins (3) and eight cotter pins.

(3) Secure the hydraulic cylinder assembly (21) to the platform with two pivot pins and four cotter pins.

41. HANDRAIL ASSEMBLY.

a. Removal.

(1) Remove the two bolts (2, figure 1) and nuts securing the handrail (7) to the platform (23) and to the base assembly (10) and remove the handrail.

(2) Remove the other handrail in the same manner.

b. Cleaning, Inspection, and Repair.

(1) Wash the parts in cleaning solvent, Federal Specification P-D-680.

(2) Inspect handrails for cracks, excessive looseness, and pinch points.

(3) Weld a cracked handrail.

(4) Replace a defective handrail.

c. Installation.

(1) Position the handrail on the platform (23) and base assembly (10) and secure with two bolts (2 and 8) and nuts.

(2) Install the other handrail in the same manner.

42. STEP ASSEMBLIES AND STAIR PLATFORM SUPPORTS.

a. Removal.

(1) Remove the four bolts (5, figure 1) washers, bushings, and nuts securing each step (6) to the stair supports (22) and remove the step.

(2) Remove the remaining seven steps in a similar manner.

(3) Remove the platform assembly (paragraph 40).

(4) Remove the eight cotter pins and four pivot pins (14) securing the stair supports to the base assembly and remove the supports.

b. Cleaning, Inspection, and Repair.

(1) Wash the parts in cleaning solvent, Federal Specification P-D-680.

(2) Inspect the steps for cracks and worn condition. Weld any small cracks.

(3) Inspect all pivot pins for excessive wear.

(4) Inspect the stair supports for cracks or weak spots. Weld any small cracks.

(5) Replace any defective parts.

c. Installation.

(1) Position the stair supports (22) on the base assembly and secure with four pivot pins (14) and eight cotter pins.

(2) Install the platform assembly (paragraph 40).

(3) Position the step (6) to the stair supports and secure with four bolts (5), washers, bushings, and nuts.

Section VI. BASE ASSEMBLY

43. GENERAL.

The base assembly (figure 7) is of welded steel tubing. It contains the hydraulic reservoir, the wheels and casters, immobilizing jacks, and the hitch.

44. IMMOBILIZING JACKS.

a. Removal and Disassembly.

(1) Remove the two bolts (12, figure 1) and nuts securing the jack (13) to the base assembly.

(2) Remove the other jack in the same manner.

(3) Remove the retaining ring (7, figure 3), spring (6), and sleeve (8) from the base assembly (9).

(4) Remove the two bolts (3 and 10) that

secure the lever (1) and two links (2) to the sleeve (8) and remove the lever and links.

b. Cleaning, Inspection, and Repair.

(1) Wash all parts in cleaning solvent, Federal Specification P-D-680.

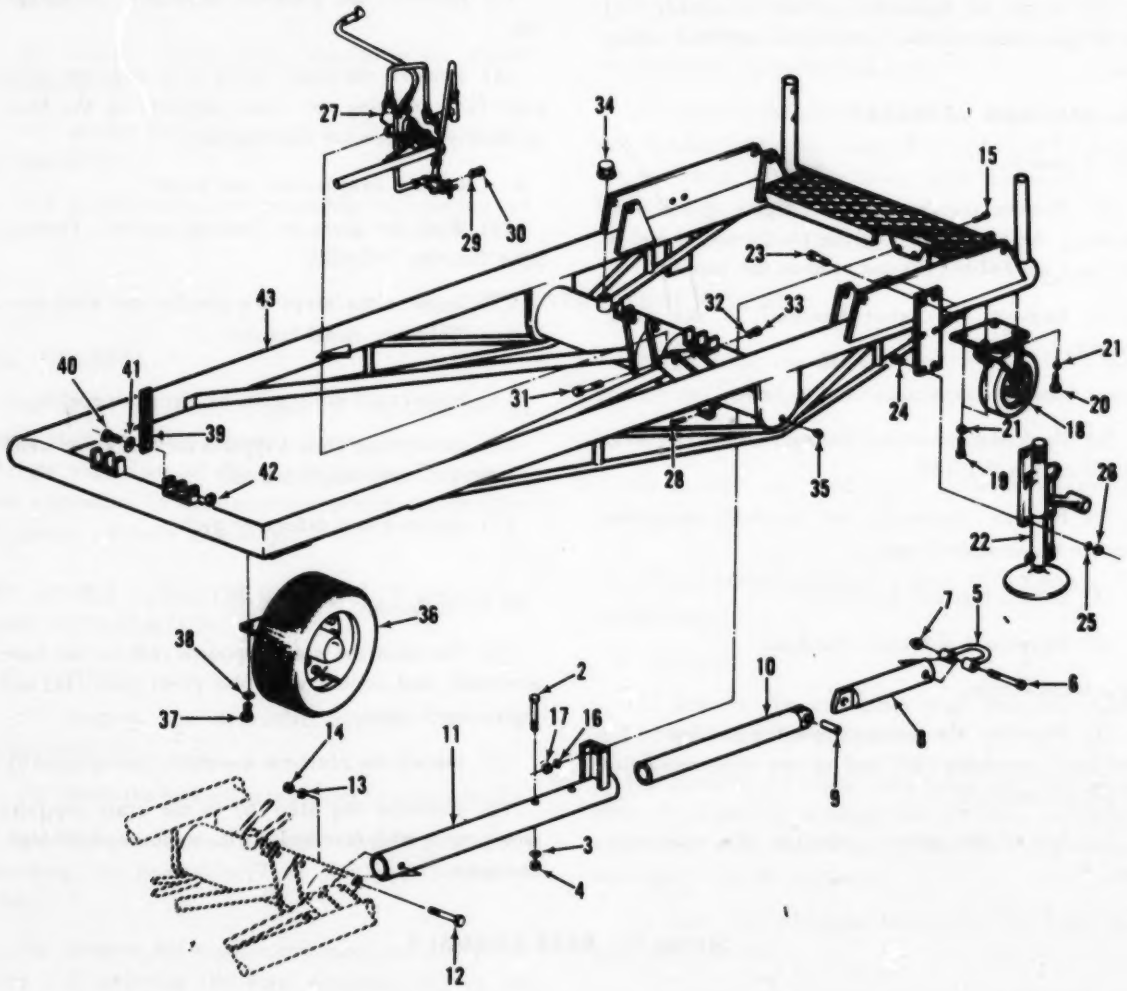
(2) Inspect the plate, tube, and sleeve for cracks or breaks. Weld a broken plate. Inspect the lever and links for breaks or cracks. Weld a broken lever or link. Grease bolts and shaft of base assembly with MIL-L-6032 grease.

(3) Replace any defective parts.

c. Reassembly and Installation.

(1) Position the lever (1) and two links (2) on the sleeve (8) and secure with the two bolts (3 and 10).

(2) Install the sleeve (8), spring (6) and retaining ring (7) on the base assembly (9).



1. NUT
2. BOLT
3. WASHER
4. NUT
5. TOW HITCH LUNETTE
6. BOLT
7. NUT
8. TOW HITCH BAR
9. PIN
10. HINGED BAR
11. PLATFORM TOW ASSEMBLY
12. BOLT
13. WASHER
14. NUT
15. BOLT
16. WASHER
17. NUT
18. CASTER
19. BOLT
20. BOLT
21. WASHER
22. LEVELING JACK
23. BOLT
24. BOLT
25. WASHER
26. NUT
27. HYDRAULIC INSTALLATION
28. SCREW
29. WASHER
30. NUT
31. BOLT
32. WASHER
33. NUT
34. HYDRAULIC RESERVOIR CAP
35. PLUG
36. WHEEL ASSEMBLY
37. BOLT
38. WASHER
39. STRAP ASSEMBLY
40. SCREW
41. WASHER
42. SNAP FASTENER STUD
43. BASE FRAME

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Figure 7. Base Assembly, Exploded View.

(3) Position the jack on the base assembly and secure with two bolts and nuts.

(4) Install the other jack in the same manner.

45. HITCH AND TOWTUBE ASSEMBLIES.

a. Removal.

(1) Remove the bolt (12, figure 7), nut (14), and washer (13) securing the platform tow assembly (11) to the bracket on the fluid reservoir (17, figure 1).

(2) Remove the two bolts (15, figure 7), nuts (17), and washers (16) attaching the hinged bar (10) to the bracket under the bottom step and remove the platform tow assembly (11).

(3) Remove the bolt (2), nut (4), and washer (3) securing the hinged bar (10) to the platform tow assembly (11) and remove the hinged bar (10) and attached parts.

b. Cleaning, Inspection, and Repair.

(1) Wash all parts in an approved cleaning solvent, Federal Specification P-D-680.

(2) Inspect all parts of the hitch and towtube assemblies for cracks and dents. Straighten any dents and weld any breaks.

c. Installation.

(1) Position the platform tow assembly (11) on the bracket at the fluid reservoir and secure with a bolt (12), nut (14), and washer (13).

(2) Position the platform tow assembly (11) on the bracket under the bottom step and secure with two bolts (15), washer (16), and nuts (17).

(3) Slide the hinged bar (10) into the towtube and secure with a bolt (2), washer (3), and nut (4).

46. SWIVEL CASTERS.

a. Removal.

(1) Remove the four bolts attaching the swivel caster to the base assembly.

(2) Remove the other caster in the same manner.

b. Cleaning and Inspection.

(1) Wash the casters in cleaning solvent, Federal Specification P-D-680.

(2) Inspect the casters for cut tires, flat spots on tires, excessive wear on bearings, and cracked wheels.

(3) Replace a defective caster.

c. Installation. Position the swivel caster on the base assembly and secure with four bolts.

47. WHEEL ASSEMBLY.

a. Removal and Disassembly.

(1) Remove the four bolts (21, figure 8) lockwashers (22) and nuts (20) securing the axle assembly (19) to the base assembly.

(2) Remove the five nuts (1) and lockwashers (2) attaching the outer rim (4) to the hub body (15) and remove the rims and tire.

(3) Remove the eight bolts (3), lockwashers (7), and nuts (8) securing the rims together. Remove the tire and tube.

(4) Remove the grease cap (9), cotter pin (11), and castellated nut (10) attaching hub body to the axle and remove the hub body.

(5) Remove the bearing washer (12), roller bearing inner race (13), and roller bearing outer race (14) from the hub body.

(6) Remove the roller bearing outer race (16), roller bearing inner race (17), and dust seal (18) from the hub body (15).

b. Cleaning and Inspection.

(1) Wash all metal parts in cleaning solvent, Federal Specification P-D-680.

(2) Inspect the tires for wear and breaks. Inspect the wheel bearings for wear and rough spots. Inspect the dust seal for serviceability. Inspect the wheel rims for cracks and breaks. Inspect the tube for holes and leaky valve.

(3) Replace any defective parts.

c. Installation.

(1) Pack the inner roller bearing race (17) with grease and install the dust seal (18), roller bearing outer race (16), and roller bearing inner race (17) in the hub body (15).

(2) Pack the outer roller bearing race (14) with grease and install the hub bearing (15), roller bearing outer race (14), roller bearing inner race (13), and bearing washer (12) on the axle assembly.

(3) Install the castellated nut (10) and tighten until snug, then back off one castellation of the nut. Secure with the cotter pin (11). Install the grease cap (9).

(4) Position the axle assembly (19) on the base assembly and secure with four bolts and nuts.

(5) Place the tube in the tire with the valve stem of the tube through the outer rim (4).

(6) Position the inner rim (6) to the outer rim and secure with eight bolts (3), lockwashers (7), and nuts (8).

(7) Position the tire and rim on the hub body and secure with five lockwashers (2) and nuts (1).

48. BASE ASSEMBLY.

a. Removal.

(1) Remove the upper structure assembly (paragraph 39).

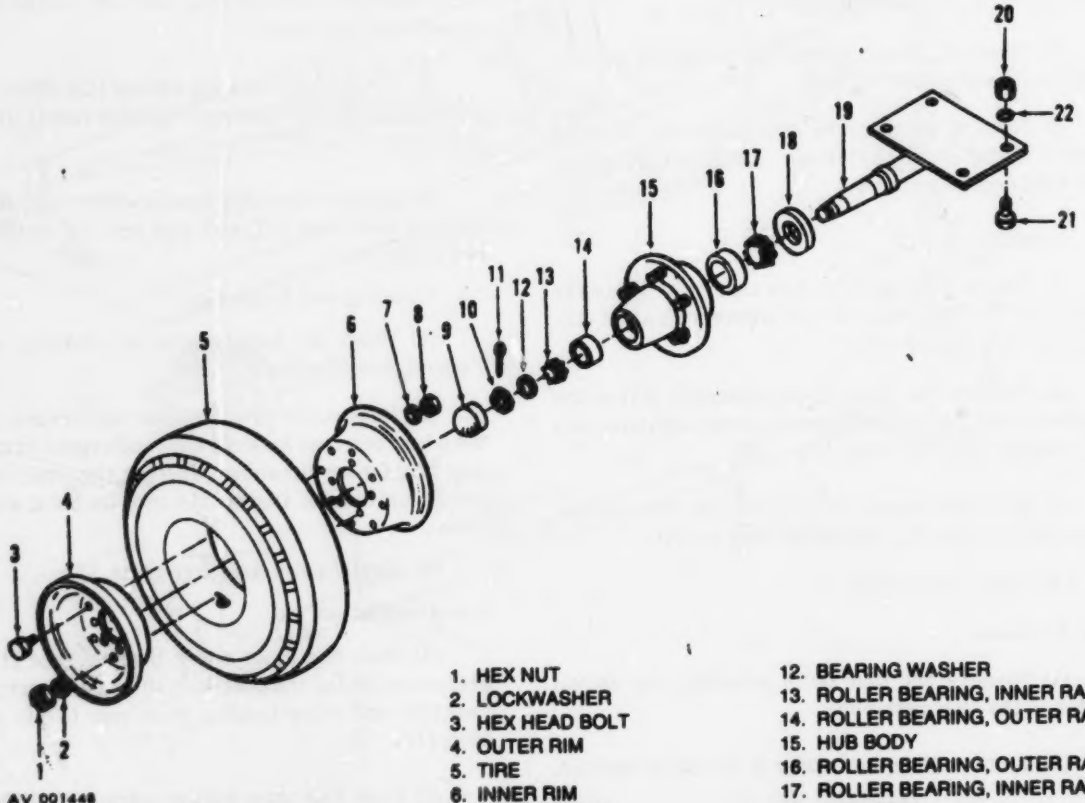
(2) Remove the hydraulic hand pump (paragraph 32).

(3) Remove the by-pass valve assembly (paragraph 33).

(4) Remove the hydraulic strainer assembly (paragraph 34).

(5) Remove the hydraulic cylinder assembly (paragraph 37).

(6) Remove the immobilizing jacks (paragraph 44).



1. HEX NUT
2. LOCKWASHER
3. HEX HEAD BOLT
4. OUTER RIM
5. TIRE
6. INNER RIM
7. LOCKWASHER
8. HEX NUT
9. GREASE CAP
10. CASTELLATED NUT
11. COTTER PIN
12. BEARING WASHER
13. ROLLER BEARING, INNER RACE
14. ROLLER BEARING, OUTER RACE
15. HUB BODY
16. ROLLER BEARING, OUTER RACE
17. ROLLER BEARING, INNER RACE
18. DUST SEAL
19. AXLE ASSEMBLY
20. HEX NUT
21. HEX HEAD BOLT
22. LOCKWASHER

Figure 8. Wheel Assembly and Axle, Exploded View.

(7) Remove the hitch and tow tube assemblies (paragraph 45).

(8) Remove the swivel caster (paragraph 46).

(9) Remove the wheel assemblies (paragraph 47).

(10) After removing the above assemblies, the base assembly is disassembled as far as possible.

b. Cleaning, Inspection, and Repair.

(1) Wash the base assembly in cleaning solvent, Federal Specification P-D-680.

(2) Inspect all tubular members for cracks or bending. Weld all cracks and straighten any bends of the tubular members.

c. Installation.

(1) Install the wheel assemblies (paragraph 47).

(2) Install the swivel casters (paragraph 46).

(3) Install the towtube and hitch assemblies (paragraph 45).

(4) Install the immobilizing jacks (paragraph 44).

(5) Install the hydraulic cylinder assembly (paragraph 37).

(6) Install the hydraulic strainer assembly (paragraph 34).

(7) Install the by-pass valve assembly (paragraph 33).

(8) Install the hydraulic hand pump (paragraph 32).

(9) Install the upper structure assembly (paragraph 39).

Section VII. NUMERICAL PARTS LISTING

FIG. AND INDEX NO.	PART NO.	FMC
5-45	AN216CP/6	88044
1-18; 7-42	AN227-10	88044
8-10	AN320-16	88044
2-13	AN325-4	88044
2-10	AN325-5	88044
8-8	AN325-6	88044
8-1	AN325-8	88044
5-31; 7-33	AN335-4	88044
7-17	AN335-6	88044
5-20; 7-30	AN340-8	88044
3-10	AN45-15	88044
3-3	AN45-15A	88044
2-22	AN504-1032-8	88044
7-28	AN515-8-24	88044
2-20	AN535-6-5	88044
5-30	AN565C10H6	88044
4-1	AN6201-1	88044
5-42	AN6227-21	88044
6-11	AN6227-37	88044
4-2; 5-5	AN6260-6-24	88044
5-8	AN816-6D	88044
5-6	AN823-6D	88044
6-2	AN8-43A	88044
5-35	AN902B8	88044
5-10	AN911-2	88044
1-16; 7-35	AN913-3S	88044
5-9	AN917-2	88044
7-32	AN935-416	88044
2-27	AN935-616	88044
8-22	AN935-816	88044
2-23; 7-41	AN960-10	88044
3-4	AN960-516	88044
6-10	MS16624-125	96906
3-7	MS16626-125	96906
5-50	MS19060-12	96906
7-7	MS20364-820	96906
5-22	MS20392-3C25	96906
5-15; 5-16	MS20822-6D	96906

Section VII. NUMERICAL PARTS LISTING (cont)

FIG. AND INDEX NO.	PART NO.	FMC
5-21	MS20823-6D	96906
3-5	MS21044N5	96906
6-5	MS21044N8	96906
8-20	MS21045L8	96906
7-36; 8-4, 8-6, 8-9, 8-12, 8-15, 8-18	MS24322-5A6	96906
7-18	MS24380-8SU	96906
5-2	MS24395D6	96906
5-3	MS24399D13	96906
5-34	MS24400D6	96906
5-28	MS24665-155	96906
8-11	MS24665-377	96906
2-2; 2-5, 2-17	MS24665-516	96906
5-33	MS28775-111	96906
5-44	MS28775-113	96906
5-41	MS28775-211	96906
5-52	MS28775-212	96906
6-13	MS28775-218	96906
5-17	MS35206-251	96906
7-40	MS35206-263	96906
5-32	MS35337-44	96906
5-19; 7-13, 7-29		
6-4; 7-21	MS35337-48	96906
7-38; 8-2	MS35338-42	96906
7-25	MS35338-45	96906
2-32; 7-3, 7-16; 8-7	MS35338-46	96906
8-5	MS35389-6	96906
2-33	MS35690-608	07878
5-13	MS35769-15	96906
7-1, 7-4	MS51967-14	96906
5-29	MS51967-2	96906
7-26	MS51967-5	96906
2-28; 7-14	MS51967-8	96906
7-24	MS90726-33	96906
7-23	MS90726-34	96906
7-20	MS90726-108	98750
7-19	MS90726-109	98750
7-6	MS9445-45	96906

Section VII. NUMERICAL PARTS LISTING (cont)

FIG. AND INDEX NO.	PART NO.	FMC
5-49	STD 1006	80254
5-40	110858	24988
5-51	110865	24988
5-46	110868	24988
5-39	110942	24988
5-36	15BD1	13234
5-38	15PP1	13234
8-13	15123	60038
8-14	15245	60038
5-48	211251	24988
5-43	211252	24988
8-16	24720	60038
8-17	24780	60038
5-47	311258	24988
1-3, 1-14; 2-18	47A16230	98750
2-15	47A16244	80049
2-16	47A16245	80049
1-19; 2-3, 2-6	47A16246	80049
5-12	47A16273	80049
5-23	47A16279	80049
5-27	47A16283	80049
2-19	47B16284	80049
4-7; 5-26	47B16318	80049
1-7	47B16333	98750
1-1; 2-7	47B16355	98750
2-4	47B16357	80049
5-11	47B16363	80049
4-5	47B16364	80049
5-14	47B16365	80049
1-15; 7-11	47B16398	98750
5-4	47B16403	80049
5-1	47B16404	80049
5-7	47B16405	80049
4-6; 5-18	47B16406	98750
7-39	47B16410	80049
1-17; 4-4	47D16329	98750
5-24	47D16379	80049
1-22; 4-35	47G16412	98750

Section VII. NUMERICAL PARTS LISTING (cont)

FIG. AND INDEX NO.	PART NO.	FMC
2-36	47G16413	80049
7-27	47R16416	98750
7-43	47R16417	98750
1-4	47R16418	98750
1-10	47R16419	98750
2-34	48A20007	80049
1-6	48C20008	98750
1-23	48D20004	
4-4	47B16353	80049
6-8	5000-312	79136
3-9	51B6388	07878
3-2	51B6389	98750
3-1	51B6391	98750
3-6	51B6392	80049
3-8	50C6387	98750
1-13; 7-22	51D6385	98750
1-11	52C6417-10	98750
2-14	53B7284	98750
8-19	53C26652	98750

FIG. AND INDEX NO.	PART NO.	FMC
6-1	55B21250	98750
6-6	55B21257	80049
6-9	55B21263	80049
6-12	55B21264	80049
6-3	55B21265	80049
1-20; 6-7	55C21260	80049
1-21, 2-1; 4-3; 6-1	55D21249	98750
6-14	55D21253	80049
2-30	55D6220	80049
2-25	55D6221	80049
2-24	55J6219	80049
2-21	55J6219-9	80049
7-9	56B6422	98750
7-34	56B6491	98750
7-5	56C6421	98750
1-9	56D6418	98750
7-10	56D6419	98750
7-8	56D6420	98750
1-8; 2-11	60-4-22	80049

Section VII. NUMERICAL PARTS LISTING (cont)

FIG. AND INDEX NO.	PART NO.	FMC
1-2; 2-8	60-4-26	80049
8-3	60-6-6	80049
7-37; 8-21	60-8-7	98750
5-37; 7-31	65-4-30	23808
1-12	65-5-10	80049
7-15	65-6-12	80049
7-2	65-6-34	98750
1-5; 2-26, 2-31	65-6-40	80049
7-12	65-8-44	98750
2-9, 2-12	935-416	98750

FIG. AND INDEX NO.	PART NO.	FMC

CHAPTER 4

SHIPMENT AND LIMITED STORAGE AND DEMOLITION TO PREVENT ENEMY USE

Section I. SHIPMENT AND LIMITED STORAGE

49. PREPARATION OF EQUIPMENT FOR SHIPMENT.

a. Fully lower the upper structure and secure with hold-down straps (39, figure 7).

b. Inspect all hardware and pivot pins and make sure they are secure.

50. LOADING EQUIPMENT FOR SHIPMENT.

The maintenance platform should be lifted with a crane or suitable hoist or rolled up a ramp to the bed of the carrier. Make sure it is blocked and tied down to prevent movement on the carrier.

51. PREPARATION OF EQUIPMENT FOR STORAGE.

a. Inspection. Make a complete inspection of the maintenance platform, as outlined in paragraph 7. Correct any deficiencies noted.

b. Lubrication. Lubricate the maintenance platform in accordance with the lubrication chart (table 1).

c. Painting. Paint all surfaces where the paint film has been damaged.

52. INSPECTION AND MAINTENANCE OF EQUIPMENT IN STORAGE.

a. Inspection. Perform a monthly inspection while the equipment is in storage and inspect for evidence of physical damage, such as rusting, pilferage, or leakage.

b. Maintenance. Every 30 days, service the maintenance platform and perform the necessary maintenance prescribed in paragraph 25.

Section II. DEMOLITION OF MATERIAL TO PREVENT ENEMY USE.

53. GENERAL.

When capture or abandonment of the maintenance platform to an enemy is imminent, the responsible unit commander must make the decision either to destroy the platform or render it inoperative. Based on this decision, orders are issued which cover the desired extent of destruction. Whatever method or demolition is employed, it is essential to destroy the same vital parts of the platform and all corresponding repair parts.

54. DEMOLITION TO RENDER MAINTENANCE PLATFORM INOPERATIVE.

Use sledge hammers or other heavy tools and destroy the by-pass valve, hand pump, and hydraulic cylinder.

55. DEMOLITION BY EXPLOSIVES OR WEAPONS FIRE.

a. Demolition by Explosives. Place the charges in the locations specified in figure 9 and detonate them simultaneously with detonating cord and a suitable detonator.

(1) One 1/2-pound charge on the hand pump.

(2) One 1/2-pound charge at the upper end of the hydraulic cylinder.

b. Demolition by Weapons Fire. Fire on the maintenance platform with the heaviest weapons available.

56. OTHER DEMOLITION METHODS.

a. Demolition by Scattering and Concealment. Remove all easily accessible vital parts such as the by-pass valve, hand pump, and hydraulic cylinder and scatter then through dense foliage, bury them in dirt or sand, or throw them in a body of water.

b. Demolition by Submersion. Submerge the maintenance platform in a body of water to provide water damage and concealment. Salt water will do greater damage to metal parts.

57. TRAINING.

All operators should receive thorough training in the destruction of the unit. Refer to FM 5-25. Simulated destruction, using all of the methods listed above, should be included in the operator training program. It must be emphasized, in training, that demolition operations are usually necessitated by critical situations when time available for carrying out destruction is limited. For this reason, it is necessary that operators be thoroughly familiar with all methods of destruction of equipment and be able to carry out demolition instructions without reference to this or any other manual.

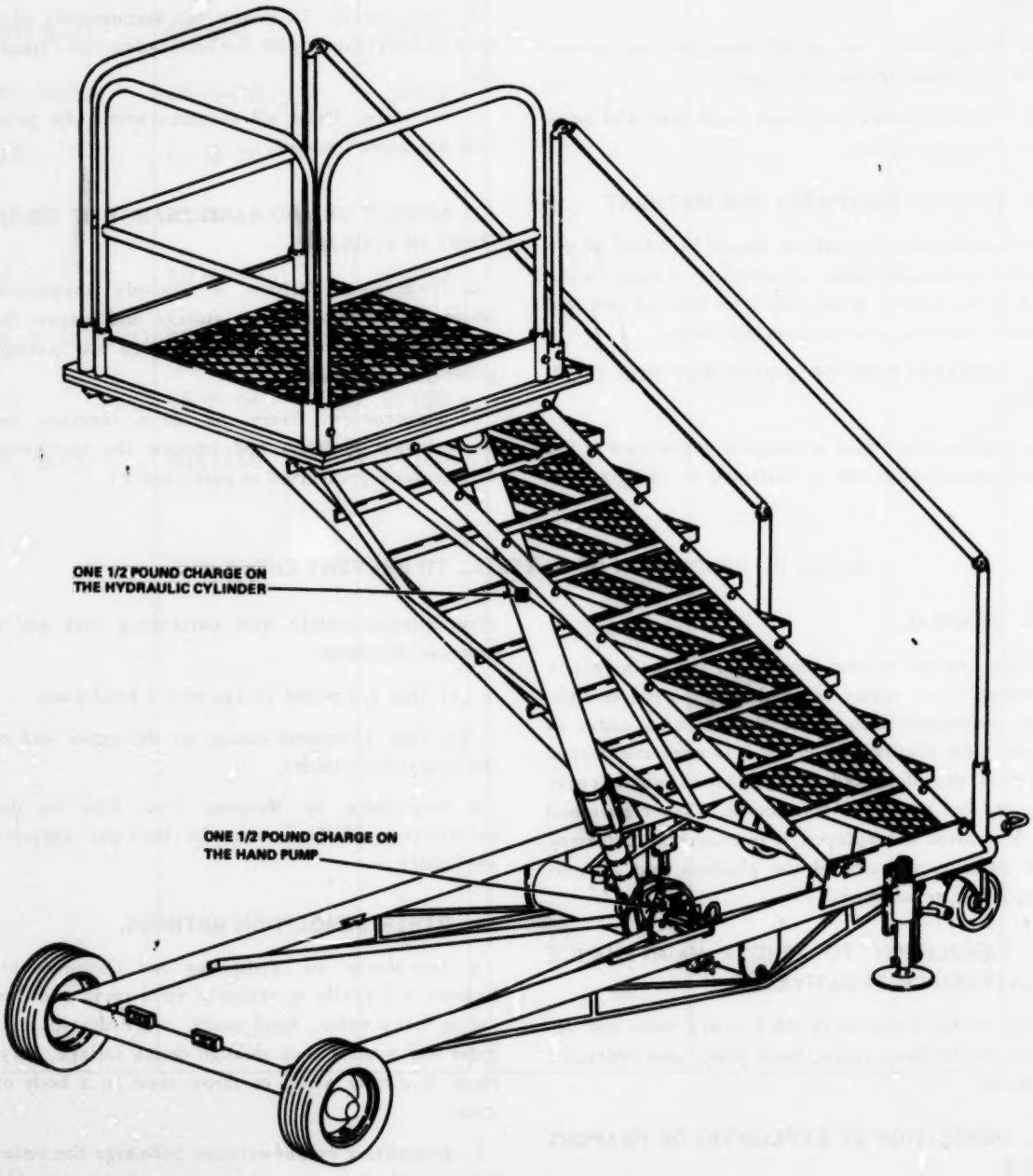


Figure 9. Placement of Charges.

APPENDIX A

REFERENCES

1. DICTIONARIES OF TERMS AND ABBREVIATIONS.

AR 320-50	Authorized Abbreviations and Brevity Codes.
AR 320-5	Dictionary of United States Army Terms.

2. FIRE PROTECTION.

AR 420-90	Repairs and Utilities; Fire Protection Equipment and Appliances; Inspections, Operations, and Preventive Maintenance.

3. PREVENTIVE MAINTENANCE.

AR 750-5	Organizations, Policies, and Responsibilities for Maintenance Operation.
TM 9-213	Painting Instructions for Field Use.

4. PUBLICATION INDEXES.

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 4, 6, 7, 8, and 9) Supply Bulletins, Lubrication Orders, and Modification Work Orders.

5. TRAINING AIDS.

FM 5-25	Explosives and Demolitions.

6. RECORDS AND REPORTS.

TM 38-750	Army Equipment Record Procedures.

APPENDIX B

MAINTENANCE ALLOCATION CHART

1. PURPOSE.

The purpose of the maintenance allocation chart is to provide all activities with maintenance functions to be performed at each level of maintenance.

2. DEFINITIONS.

a. Column 1, group number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, functional group. Column 2 lists the noun names of components, assemblies, subassemblies, and modules on which maintenance is authorized.

c. Column 3, maintenance functions. Maintenance functions will be limited to and defined as follows:

(1) *Inspect.* To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

(2) *Test.* To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

(3) *Service.* To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

(4) *Adjust.* To rectify to the extent necessary to bring into proper operating range.

(5) *Align.* To adjust specified variable elements of an item to bring to optimum performance.

(6) *Calibrate.* To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard instrument.

(7) *Install.* To set up for use in an operational environment such as an emplacement, site, or vehicle.

(8) *Replace.* To replace unserviceable items with serviceable assemblies, subassemblies, or parts.

(9) *Repair.* To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.

(10) *Overhaul.* To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards prepared and published for the specific item to be overhauled.

(11) *Rebuild.* To restore an item to a standard as nearly as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.

(12) *Symbols.* The symbol O, F, H, or D placed in the appropriate column indicates the level responsible for performing that particulat maintenance function. The symbol "%%" which applies to organizational maintenance indicates that the particular maintenance function may be performed, provided it is specifically authorized by the direct support maintenance officer. Use of the symbol will apply only to replacement of major assemblies and time-consuming operations which are within the capabilities of organization, but over which control by the commodity commands is considered essential. In no case will the direct support maintenance officer require the accomplishment of a "%%" maintenance function by an organization or unit, and in no case will a "%%" function authorize stockage of parts at organizational level.

d. Column 4, tools and equipment. This column will be used to specify, by code, those tools and test equipment required to perform the designated function.

e. Column 5, Remarks. Self-explanatory.

3. GENERAL.

a. A maintenance function assigned to a maintenance level, which for any reason is beyond its capability, becomes the responsibility of the next higher maintenance level.

b. The authority to perform a maintenance function does not constitute authority to requisition or otherwise secure necessary repair parts as specified in current supply directives.

4. DEVIATIONS.

a. Normally, there will be no deviations from the assigned maintenance level. In cases of operational necessity, a maintenance function assigned to a maintenance level may, on a one-time basis and at the request of the lower maintenance level, be authorized to the lower maintenance level by the maintenance officer of the level to which the function is assigned.

b. The furnishing of special tools, equipment, and the like, required by the lower maintenance level to perform this function, will be the responsibility of the level to which the function is assigned.

5. ADDITIONAL INFORMATION.

a. Changes in the maintenance allocation chart will be based on continuing evaluation and analysis by responsible technical personnel and on Maintenance Request Forms DA 2407 received from field activities.

b. All maintenance prescribed herein will be performed in accordance with applicable publications.

c. In any instance of conflict with current tool and equipment lists or current supply manuals, this maintenance allocation chart will be the final authority. Each such instance should be promptly reported by Maintenance Request Form DA 2407.

MAINTENANCE ALLOCATION CHART
FOR
Maintenance Platform, Type B-1

(AR 310-3)

(1) GROUP NO	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
00	Maintenance Platform, Type B-1	O		O						O				
01	Upper Structure Assembly													
	Steel Tubing, Tie Rods and Wishbones									O				
	Handrails								O					
02	Hydraulic Cylinder Assembly													
	Cylinder Assembly									O				
03	Base Assembly													
	Casters								O					
04	Immobilizing Jack Assembly									O				
05	Hydraulic System Installation													
	Pump and Strainer								O					
	Tube Assemblies								O					
	Valve Assembly								O					
06	Wheel Assembly and Axle								O					

APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LISTS

(Current as of 15 August 1967)

Section I. INTRODUCTION

1. SCOPE.

This appendix includes those items required for the performance of organizational maintenance of the Maintenance Platform, Type B-1 (FSN 1730-390-5618).

2. GENERAL.

This Repair Parts and Special Tools listing is divided into the following Sections.

a. Basic Issue Items – Section II. (Not applicable)

b. Maintenance and Operating Supplies – Section III. (Not applicable)

c. Prescribed Load Allowance (PLA) – Section IV. (Not applicable)

d. Repair Parts – Section V. A list of repair parts authorized for the performance of maintenance at organizational level in alphabetical sequence within each functional group.

e. Special Tools, Test and Support Equipment – Section VI. (Not applicable)

f. Index – Section VII. This section is divided into the following parts:

(1) *Federal Stock Number Index – Part 1.* A list of Federal stock numbers, in ascending numerical sequence, cross-referenced to figure and item number.

(2) *Reference Number Index – Part 2.* A list of reference numbers in alpha-numerical sequence cross-referenced to manufacturers' code, figure, and item number.

3. EXPLANATION OF COLUMNS.

The following provides an explanation of columns in the tabular lists in Section V.

a. Source, Maintenance, and Recoverability Codes (SMR).

(1) *Source Code.* Indicates the selection status and source for the listed item. Source codes used are:

(a) Code P. Applies to repair parts which are stocked in, or supplied from, General Service Administrational Defense Supply Agency or Army Supply System and are authorized for use at indicated maintenance categories.

(b) Code X1. Applies to repair parts which are not procured or stocked, the requirement for which will be supplied by use of next higher assembly or component.

(c) Code X2. Applies to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.

(2) *Maintenance Code.* Indicates the lowest category of maintenance authorized to install the listed item. The maintenance code used is:

Code O – Organizational Maintenance

(3) *Recoverability Code.* Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. The recoverability code used is:

Code R – applies to repair parts and assemblies which are economically repairable at DS/GS activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number. Indicates the Federal Stock Number assigned to the item and will be used for requisitioning purpose.

c. Description. Indicates the Federal item name and any additional description of the item required. Multiple application of an item is also listed within this column, quantities appearing before each application. This column contains the following sub-columns:

(1) *Reference Number.* Indicates the manufacturer's reference number or identification number followed by the applicable five-digit Federal Supply Code for manufacturers in parentheses.

(2) *Models Usable On.* (Not applicable)

d. Unit of Issue (U/I). A two character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g. GR, EA, HD, etc.

e. Quantity Incorporated in Unit. Indicates the quantity of item used in each assembly.

f. Fifteen-Day Organizational Maintenance Allowance.

(1) The allowance column is divided into four sub-columns. Indicated in each sub-column opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have an entry of REF in the allowance column. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowance for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipment supported. Units or organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the density column applicable to number of items supported to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to the last digit of the number to indicate hundreths and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items authorized. If additional items are considered necessary, recommendations should be forwarded to U.S. Army Aviation Systems Command for exception or revision to the allowance list. Revision to the range of items authorized will be made by the U.S. Army Aviation Systems Command based upon engineering experience, demand data or TAERS information.

g. Illustration.

(1) *Figure Number.* Indicates the figure number of the illustration in which the item is shown.

(2) *Item Number.* Indicates the callout number used to reference the item in the illustration.

4. ABBREVIATIONS.

The following abbreviations are used:

Assy	Assemblies
Bkdn	Breakdown
Dia	Diameter
EA	Each
GR	Gross
HD	Hundreds
In.	Inch(es)
Mtg	Mounting(s)

5. FEDERAL SUPPLY CODE FOR MANUFACTURERS.

Code	*Manufacturer and location*
60038	Timken Roller Bearing Co., Canton, Ohio
79136	Waldes Kohinoor Inc., Long Island City, N.Y.
80049	Department of the Air Force, Washington, D.C.
80254	AVCO/Lycoming Division Williamsport Plant, Williamsport, Pa.
88044	Aeronautical Standards Group Dept. of Navy and Air Force, Washington, D.C.
96906	Military Standards Promulgated by Standardization Div. Directorate of Logistic Services DSA, Washington, D.C.

(1) (A) SOURCE CODE	(1) (B) MAINT. CODE	(1) (C) REC. CODE	(2) FEDERAL STOCK NUMBER	REFERENCE NUMBER AND MFR CODE		(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) 15-DAY ORG MAINT ALW. (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIG. NO.	(B) ITEM NO.
P	O	R	1730-390-5618	47R16420	(80049)	MAINTENANCE PLATFORM, Type B-1	EA						1	
						SECTION V REPAIR PARTS								
						GROUP 01 UPPER STRUCTURE ASSEMBLY								
P	O		1730-492-3965	48A20007	(80049)	BEARING, Sleeve, step mtg	EA	32	*	*	*	*	2	34
X2	O		1730-605-8818	55D21249	(80049)	CYLINDER ASSEMBLY, Actuating, linear (See group 02 for breakdown)	EA	1					2	1
P	O		1730-772-4208	55J6219	(80049)	FLOOR PLATE, Platform	EA	1	*	*	*	*	2	24
P	O		1730-492-3688	47B16355	(80049)	HANDRAIL, Platform	EA	3	*	*	*	*	2	7
P	O		1730-492-3685	47B16333	(80049)	HANDRAIL, Platform	EA	2	*	*	*	*	1	7
P	O		1730-798-9053	47A16244	(80049)	. HANDRAIL, Folding	EA	4	*	*	*	*	2	15
X1				47A16245	(80049)	. RAIL, Maintenance stand, stair		2					2	16
X1				53B7284	(98750)	. SWIVEL ASSEMBLY, Maintenance		4					2	14
P	O		5310-732-0558	MS51967-8	(96906)	NUT, Plain, hexagon, step mtg.	EA	32	*	*	*	*	2	28
P	O		5315-243-1170	MS24665-516	(96906)	PIN, Cotter	EA	22	*	*	*	*		
						2 EA cylinder assy mtg							2	2
						8 EA platform assy mtg							2	
						2 EA tube brace mtg							2	5
						10 EA upper structure assy mtg .							2	17
P	O		5305-253-5619	MS21318-28	(96906)	SCREW, Drive, warning plate mtg	EA	7	*	*	*	*	2	
P	O		1730-792-8613	55D6220	(80049)	STEP, Platform, standard	EA	7	*	*	*	*	2	30
P	O		1730-676-0555	55D6221	(80049)	STEP, Platform, upper	EA	1	*	*	*	*	2	25
P	O		1730-055-2942	47G16413	(80049)	SUPPORT, Platform, rear	EA	1	*	*	*	*	2	36

(1)			(2)	(3)			(4)	(5)	(6)				(7)	
(A) SOURCE CODE	(B) MAINT. CODE	(C) REC. CODE	FEDERAL STOCK NUMBER	REFERENCE NUMBER AND MFR CODE		DESCRIPTION	UNIT OF ISSUE	QTY INC IN UNIT	15-DAY ORG MAINT ALW. (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	ILLUSTRATION (A) FIG. NO.	(B) ITEM NO.
P	O		5310-167-0818	AN960-10	(88044)	WASHER, Flat, bumper assy mtg screw	HD	24	*	*	*	*	2	23
P	O		5310-637-9541	MS35338-46	(96906)	WASHER, Lock, step mtg	HD	32	*	*	*	*	2	32
						GROUP 02 HYDRAULIC CYLINDER ASSEMBLY								
X2	O		1730-605-8818	55D21249	(80049)	CYLINDER ASSEMBLY, Actuating linear	EA	REF					6	
P	O		1730-787-1535	55B21263	(80049)	. BUSHING, Hydraulic	EA	1	*	*	*	*	6	9
P	O		1730-787-1533	55B21265	(80049)	. CAP, Linear actuating	EA	1	*	*	*	*	6	3
P	O		1730-787-1531	55B21250	(80049)	. CYLINDER, Actuating,linear	EA	1	*	*	*	*	6	1
P	O		1730-909-9404	55C21260	(80049)	. LOCK, Barrel, hydraulic	EA	1	*	*	*	*	6	7
P	O		5310-877-5795	MS21044N8	(96906)	. NUT, Self-locking, hexagon, Sleeve assy mtg	EA	2	*	*	*	*	6	5
P	O		5330-194-3719	AN6227-37	(80044)	. PACKING, Preformed, cylinder piston	EA	1	*	*	*	*	6	11
P	O		5330-584-0263	MS28775-218	(96906)	. PACKING, Preformed, piston rod	EA	1	*	*	*	*	6	13
P	O		1730-787-1536	55B21264	(80049)	. PISTON, Linear actuating cylinder	EA	1	*	*	*	*	6	12
P	O		5340-598-4274	5000-312	(79136)	. RING, Retaining, cylinder bushing	EA	1	*	*	*	*	6	8
P	O		5340-281-6623	MS16624-125	(96906)	. RING, Retaining, cylinder piston	EA	1	*	*	*	*	6	10
X2	O			55D21253	(80049)	. ROD, Piston, linear		1					6	14
P	O		5310-045-3298	MS35337-48	(96906)	. WASHER, Lock, sleeve assy mtg	EA	2	*	*	*	*	6	4
						GROUP 03 BASE ASSEMBLY								
P	O		5306-299-2367			BOLT, Machine, tow tube assy mtg	EA	1	*	*	*	*	7	15
X2	O		5340-810-4193	MS24380-8SU	(96906)	CASTER, Industrial	EA	2					7	18

(1) SOURCE CODE (A)	(1) MAINT. CODE (B)	(1) REC. CODE (C)	(2) FEDERAL STOCK NUMBER	REFERENCE NUMBER AND MFR CODE		(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) 15-DAY ORG MAINT ALW. (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIG. NO.	(B) ITEM NO.
P	O		1730-394-5864	51D6385	(80049)	JACK, Leveling-support, stand (See group 04 for breakdown)	EA	2	*	*	*	*	7	22
P	O		5310-880-7744	MS51967-5	(96906)	NUT, Plain, hexagon, jack mtg	EA	12	*	*	*	*	7	26
P	O		5310-768-0318	MS51967-14	(96906)	NUT, Plain, hexagon	EA	2	*	*	*	*		
						1 EA hitch mtg							7	4
						1 EA tow tube assy mtg							7	1
P	O		5310-732-0558	MS51967-8	(96906)	NUT, Plain, hexagon, tow tube assy mtg	EA	1	*	*	*	*	7	14
P	O		5305-984-6210	MS35206-263	(96906)	SCREW, Matching, holddown strap mtg	HD	4	*	*	*	*	7	40
P	O		1730-492-3706	47B16410	(80049)	STRAP ASSEMBLY, Rack handrail stowage	EA	2	*	*	*	*	7	39
P	O		5325-264-9592	AN227-10	(88044)	STUD, Snap fastener, strap assy mtg	EA	2	*	*	*	*	7	42
P	O		1730-492-3704	47B16398	(80049)	TOW ASSEMBLY, Platform	EA	1	*	*	*	*	7	11
P	O		1730-676-0556	56D6418	(80049)	HITCH, Maintenance	EA	1	*	*	*	*	1	9
P	O		5310-285-5638	MS20364-820	(96906)	NUT, Self-locking, hexagon	HD	2	*	*	*	*	7	7
P	O		5310-167-0818	AN960-10	(88044)	WASHER, Flat, holddown strap mtg	HD	4	*	*	*	*	7	41
P	O		5310-045-3298	MS35337-48	(96906)	WASHER, Lock	EA	16	*	*	*	*		
						8 EA caster mtg							7	21
						8 EA wheel mtg							7	38
P	O		5310-637-9541	MS35338-46	(96906)	WASHER, Lock	HD	2	*	*	*	*		
						1 EA hitch mtg							7	3
						1 EA towbar mtg							7	16
P	O		5310-407-9566	MS35338-45	(96906)	WASHER, Lock, jack mtg	HD	12	*	*	*	*	7	25
P	O		5310-045-3299	MS35338-42	(96906)	WASHER, Lock, tow tube assy mtg	HD	1	*	*	*	*	7	12
P	O		2530-756-1210	MS24322-5A6	(96906)	WHEEL, Pneumatic tire	EA	2	*	*	*	*	7	36
						GROUP 04 IMMOBILIZING JACK ASSEMBLY								
P	O		1730-394-5864	51D6385	(80049)	JACK, Leveling-support, stand	EA	REF					7	22

(1) (A) SOURCE CODE	(1) (B) MAINT. CODE	(1) (C) REC. CODE	(2) FEDERAL STOCK NUMBER	REFERENCE NUMBER AND MFR CODE		(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) 15-DAY ORG MAINT ALW. (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIG. NO.	(B) ITEM NO.
P	O		5306-206-3828	AN45-15	(88044)	. BOLT, Eye, base tube to link	EA	1	*	*	*	*	3	10
P	O		1730-398-5035	51B6388	(80049)	. FOOT STAND, Immobilizing	EA	1	*	*	*	*	3	9
X1				51B6391	(80049)	. LEVER, Platform jack		1					3	1
P	O		5310-088-0553	MS21044N5	(96906)	. NUT, Self-locking, hexagon	HD	4	*	*	*	*		
						1 EA base tube to link							3	5
						3 EA link mtg							3	5
P	O		5340-060-2313	MS16626-125	(96906)	. RING, Retaining	EA	2	*	*	*	*	3	7
P	O		1730-212-4534	51C6387	(80049)	. SLEEVE, Platform	EA	1	*	*	*	*	3	8
P	O		4920-286-6186	51B6392	(80049)	. SPRING, Helical, compression	EA	2	*	*	*	*	3	6
P	O		5310-167-0820	AN960-516	(88044)	. WASHER, Flat, link mtg	HD	4	*	*	*	*	3	4
						GROUP 05 HYDRAULIC SYSTEM INSTALLATION								
P	O		4730-196-9580	AN816-6D	(88044)	ADAPTER, Straight, pipe to tube, return tube	EA	1	*	*	*	*	5	8
P	O		4730-186-9950	MS20823-6D	(96906)	ELBOW, Pipe to tube	EA	1	*	*	*	*	5	21
P	O		4730-186-9968	MS20822-6D	(96906)	ELBOW, Pipe to tube	EA	2	*	*	*	*		
						1 EA by-pass tube							5	16
						1 EA Suction tube							5	15
P	O		4730-186-7798	AN911-2	(88044)	NIPPLE, Pipe, strainer to reservoir	EA	1	*	*	*	*	5	10
P	O		5310-761-6882	MS51967-2	(96906)	NUT, Plain, hexagon, hand pump mtg	HD	2	*	*	*	*	5	29
P	O		5310-176-8135	AN340-8	(88044)	NUT, Plain, hexagon, valve assy mtg	GR	2	*	*	*	*	5	20
P	O		1730-492-3727	47D16393	(80049)	PUMP, Hydraulic ram, hand driven	EA	1	*	*	*	*	4	1
P	O		1730-492-3656	47A16279	(80049)	. CONNECTING, Link, rigid	EA	2	*	*	*	*	5	23
P	O		1730-492-3682	47B16318	(80049)	. HANDLE ASSEMBLY, Hydraulic pump	EA	1	*	*	*	*	5	26
P	O		5310-638-2605	MS24400D6	(96906)	. NUT, Plain, hexagon	EA	1	*	*	*	*	5	34

(1) (A) SOURCE CODE	(1) (B) MAINT. CODE	(1) (C) REC. CODE	(2) FEDERAL STOCK NUMBER	(3) REFERENCE NUMBER AND MFR CODE		DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) 15-DAY ORG MAINT ALW. (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIG. NO.	(B) ITEM NO.
P	O		5330-579-8108	MS28775-111	(96906)	. PACKING, Preformed	EA	1	*	*	*	*	5	33
P	O		5315-234-1856	MS24665-155	(96906)	. PIN, Cotter, Socket link adapter	HD	1	*	*	*	*	5	28
P	O		5315-081-7875	MS20392-3C25	(96906)	. PIN, Straight, headed, socket link adapter	EA	2	*	*	*	*	5	22
P	O		3110-915-5572	MS19060-12	(96906)	. . BEARING, BALL, 7/16 in. dia	EA	1	*	*	*	*	5	50
P	O		5330-069-9643	STD1006	(80254)	. . PACKING, Preformed, inlet seat	EA	1	*	*	*	*	5	49
P	O		5330-198-6177	AN6227-21	(88044)	. . PACKING, Preformed	EA	1	*	*	*	*	5	42
P	O		5330-559-6182	MS28775-211	(96906)	. . PACKING, Preformed, O-ring	EA	1	*	*	*	*	5	41
P	O		5330-579-8156	MS28775-212	(96906)	. . PACKING, Preformed, piston	EA	1	*	*	*	*	5	52
P	O		5330-582-2855	MS28775-113	(96906)	. . PACKING, Preformed, piston seat	EA	1	*	*	*	*	5	44
P	O		4730-803-7981	MS24399D13	(96906)	. REDUCER, Tube	EA	1	*	*	*	*	5	3
P	O		5305-984-6205	MS35206-257	(96906)	. SCREW, Machine, pin pivot retaining	GR	2	*	*	*	*	5	17
P	O		1730-492-3722	47D16379	(80049)	. SOCKET, Pump handle	EA	1	*	*	*	*	5	24
P	O		1730-492-3657	47A16283	(80049)	. SPRING, Helical, extension, handle	EA	1	*	*	*	*	5	27
P	O		4730-725-0100	MS24395D6	(96906)	. . TEE, Tube	EA	1	*	*	*	*	5	2
P	O		1730-492-3696	47B16364	(80049)	. STRAINER ASSEMBLY, hydraulic fluid	EA	1	*	*	*	*	4	5
P	O		1730-192-3697	47B16365	(80049)	. BODY, Strainer, hydraulic fluid	EA	1	*	*	*	*	5	14
P	O		5330-752-8605	MS35769-15	(96906)	. GASKET	EA	1	*	*	*	*	5	13
P	O		1730-492-3695	47B16363	(80049)	. PLUG, Strainer, hydraulic	EA	1	*	*	*	*	5	11
P	O		1730-029-0865	47B16404	(80049)	TUBE ASSEMBLY, By-pass	EA	1	*	*	*	*	5	1
P	O		1730-029-0866	47B16405	(80049)	TUBE ASSEMBLY, return	EA	1	*	*	*	*	5	7
P	O		1730-492-3705	47B16406	(80049)	VALVE ASSEMBLY, By-pass	EA	1	*	*	*	*	5	18

(1) SOURCE CODE (A)	(1) MAINT. CODE (B)	(1) REC. CODE (C)	(2) FEDERAL STOCK NUMBER	REFERENCE NUMBER AND MFR CODE		(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) 15-DAY ORG MAINT ALW. (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIG. NO.	(B) ITEM NO.
P	0		5310-167-0667	MS35337-44	(96906)	WASHER, Lock, hand pump mtg	HD	1	•	•	•	•	5	32
P	0		5310-167-0661	AN935-8	(88044)	WASHER, Lock, valve assy mtg	HD	1	•	•	•	•	5	19
						GROUP 06								
						WHEEL ASSEMBLY AND AXLE								
P	0		1730-213-9996	53C26652	(80049)	AXLE ASSEMBLY, Platform	EA	2	•	•	•	•	8	19
P	0		3110-198-2169	15123	(60038)	CONE AND ROLLERS, Tapered roller bearing	EA	2	•	•	•	•	8	13
P	0		3110-100-3537	24780	(60038)	CONE AND ROLLERS, Tapered roller bearing	EA	2	•	•	•	•	8	17
P	0		3110-198-2170	15245	(60038)	CUP, Tapered roller bearing	EA	2	•	•	•	•	8	14
P	0		3110-100-1542	24720	(60038)	CUP, Tapered roller bearing	EA	2	•	•	•	•	8	16
P	0		2610-269-7354	MS35392-52	(96906)	INNER, TUBE, Pneumatic tire	EA	2	•	•	•	•	8	
P	0		5310-176-8117	AN320-16	(88044)	NUT, Slotted hexagon	EA	2	•	•	•	•	8	10
P	0		5315-285-7161	MS24665-377	(96906)	PIN, Cotter	HD	2	•	•	•	•	8	11
P	0		2610-050-9840	MS35389-6	(96906)	TIRE, Pneumatic, 600 × 9, 6 ply	EA	2	•	•	•	•	8	5
P	0		5310-637-9541	MS35338-46	(96906)	WASHER, Lock	HD	16	•	•	•	•	8	7
P	0		5310-045-3298	MS35337-48	(96906)	WASHER, Lock, wheel assy mtg	EA	10	•	•	•	•	8	2
P	0		2530-589-8537	31509	(80875)	CAP, GREASE	EA	2	•	•	•	•	8	9

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1730-213-9996	8	19
1730-390-5618	1	
1730-394-5864	3	
	7	22
1730-398-5035	3	9
1730-492-3656	5	23
1730-492-3657	5	27
1730-492-3682	5	26
1730-492-3685	1	7
1730-492-3688	2	7
1730-492-3695	5	11
1730-492-3696	4	5
1730-492-3697	5	14
1730-492-3704	7	11
1730-492-3705	5	18
1730-492-3706	7	39
1730-492-3722	5	24
1730-492-3727	4	1
1730-492-3965	2	34
1730-605-8818	2-6	1
	6	1
1730-676-0555	2	25
1730-676-0556	1	9
1730-772-4208	2	24
1730-787-1531	6	2
1730-787-1533	6	4
1730-787-1535	6	10
1730-787-1536	6	12
1730-792-8613	2	30
1730-798-9053	2	15
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4730-186-9950	5	21
4730-186-9968	5	15
	5	16
4730-196-9580	5	8
4730-725-0100	5	2
4730-803-7981	5	3
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5305-253-5619	2	
5305-984-6205	5	17
5305-984-6212	7	40
5306-206-3828	3	10
5306-299-2367	7	15
5310-045-3298	7	21
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5310-045-3299	5	19
	7	13
5310-088-0553	3	5
5310-167-0667	5	32
5310-167-0818	2	23
	7	41
5310-167-0820	3	4
5310-176-8117	8	10
5310-176-8135	5	20
5310-285-5638	7	7
5310-407-9566	7	25
5310-637-9541	2	32
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	7	16
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5310-732-0558	2	28
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5310-880-7744	7	26
5315-081-7875	5	22
5315-234-1856	5	28
5315-243-1170	2	
	2	2
	2	5
	2	17
5315-285-7161	8	11
5325-264-9592	7	42
5330-069-9643	5	49
5330-194-3719	6	12
5330-198-6177	5	42
5330-559-6182	5	41
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5330-582-2855	5	44
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5330-752-8605	5	13
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MS16626-125	96906	3	7
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MS19060-12	96906	5	50
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MS24665-337	96906	8	11
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		2	5
		2	17
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MS35337-44	96906	5	32
MS35337-48	96906	7	21
		7	38
		6	5
		8	2
MS35338-42	96906	5	19
		7	13
MS35338-45	96906	7	25
MS35338-46	96906	2	32
		7	3
		7	16
		8	7
MS35389-6	96906	8	5
MS35392-52	96906	8	
MS35769-15	96906	5	13
MS51967-14	96906	7	1
		7	4
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MS51967-5	96906	7	26
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47A16279	80049	5	23
47A16283	80049	5	27
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47B16365	80049	5	14
47B16398	80049	7	11
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47B16404	80049	5	1
47B16405	80049	5	7
47B16406	80049	5	18
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47B16410	80049	7	39
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53B7284	80049	2	14
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55B21250	80049	6	2
55B21263	80049	6	10
55B21264	80049	6	13
55B21265	80049	6	4
55C21260	80049	6	8
		1	20
55D21249	80049	2	1
		6	1
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By Order of the Secretary of the Army:

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